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August 30th, 1947
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Washington Highlights

Military petroleum demands will be given priority over civilian consumers in the purchase of oil and gasoline. Henry W. Page of the National Petroleum Council's committee on Government and Military requirements made this promise at a recent meeting of Government and oil industry officials.

The conference was called by Interior Secretary Krug as a means of solving the problem of threatened fuel shortage.

Navy Secretary Forrestal told the conference he considered as urgent a priority for military consumers. He said the plea of the military for such action was based on "calm study" and not in the nature of an "hysterical" appeal.

Gen. Hoyt S. Vandenberg, deputy commander of the Air Force, told oil leaders that the petroleum shortages have already interferred with normal activities of the Air Force. Despite oil conservation, he said, air operations have been cut approximately 83 per cent because of the serious petroleum situation.

Demands of the armed service can best be satisfied if a centralized procurement agency is established charged with this responsibility, petroleum leaders agreed.

Interior Secretary Krug has authorized private industry to drill for oil and gas of 1,000,000 acres of Wyoming forest land not far from the Jackson Hole National Monument and Teton wilderness area.

The Secretary indicated that leasing will be strictly controlled so that hit and miss drilling, unnecessary road construction and other operations which might destroy the forest are avoided.

Krug pointed to the serious decline in new oil discoveries and stated that his order would enable the tapping of additional oil supplies when the Armed Forces are critically short of minimum requirements of petroleum products.

During the war years demand for petroleum products rose to tremendous heights, but never on the scale current throughout the country and the entire world.

Reporting on the result of a nationwide survey, the American Petroleum Institute said consumptive demand for gasoline and fuel is running far ahead of refineries and only by accelerated production can spot shortages of supplies be circumvented.

The imminent shortage of petroleum in the Middle West, the Institute stated, is due in a measure to the increased use of tractors by farmers and problems associated with transportation of oil. Farm consumption of gasoline in recent years has doubled and continues to increase.

Based on statistics gathered by the Commerce Department, imports of crude petroleum and refined products during May averaged 450,000 barrels daily.

The average for the first five months of 1947 was 475,000 barrels a day. This was an increase of 27 per cent over the corresponding period of last year. On the other hand, petroleum exports at present approximate 450,000 barrels dailv. In the light of these figures, the United States appears a net importer of oil and its products.

A prominent speaker at the meeting of the Interstate Oil Compact Commission at Great Falls, Mont., was Russell B. Brown, general counsel here for the Independent Petroleum Association of America.

He expressed hope that legislation pending in both branches of Congress will be enacted and finally set at rest the tideland question and return to the several states clear and encumbered title to its offshore lands. He pointed out that the tideland dispute arose in recent years and only when the lands were found to be rich in oil deposits.

He also touched upon a number of other problems confronting the petroleum industry, exemplified by "an invasion of the constitutional rights of the states" by Federal regulation of natural gas and a lack of steel for normal operations in all branches of oil development.

Senator Robert A. Taft, (Republican), Ohio, will speak in Los Angeles, September 16, before a meeting of California Republicans. His California itinerary will include a a visit with a relative in San Diego September 15. He will address the California State Bar Association in Santa Cruz on September 12,13.

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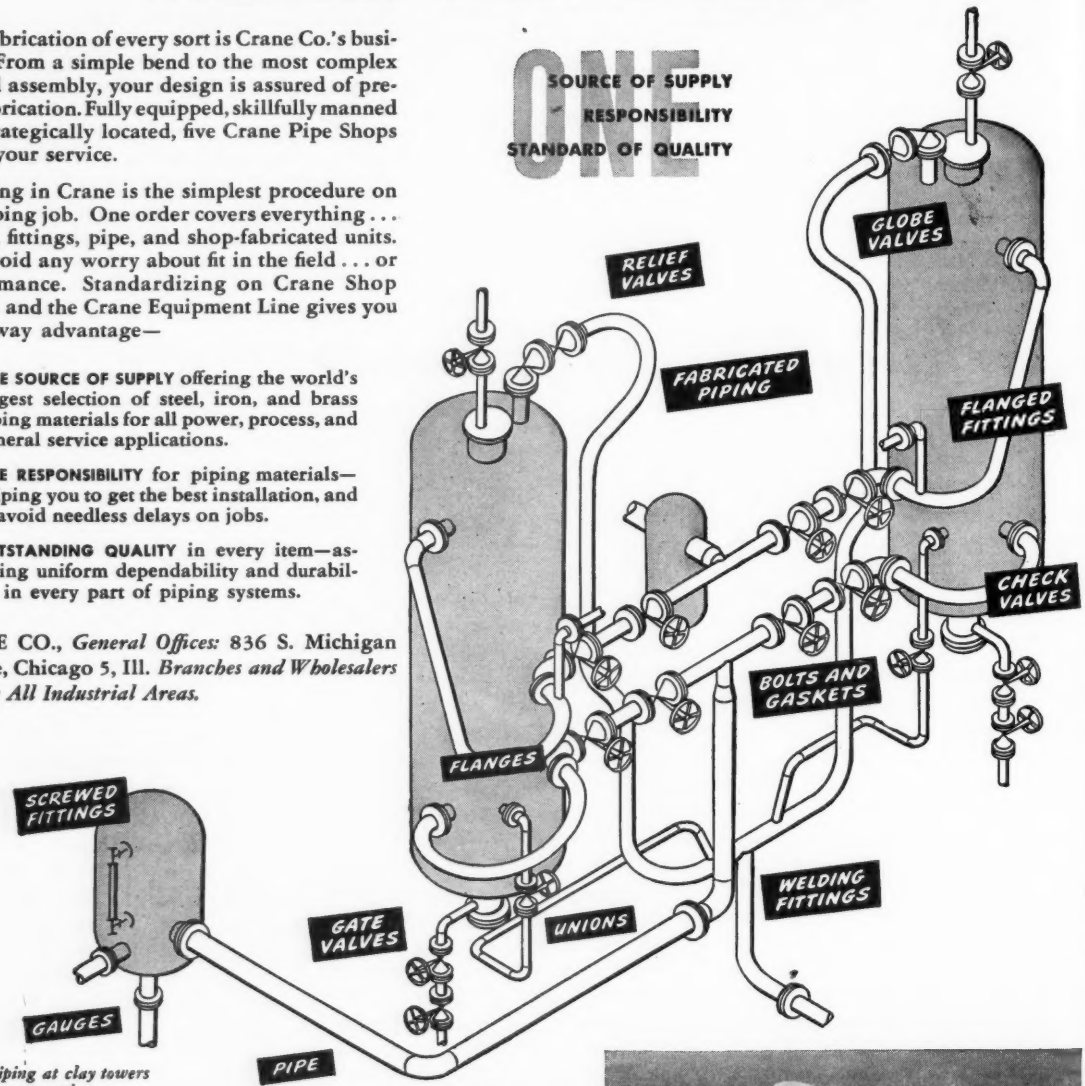

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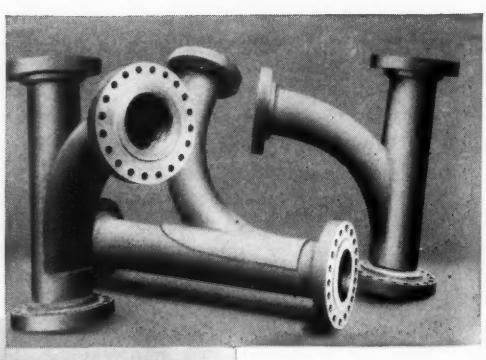

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Pressure Instruments Applied to The Modern Refinery

By Alfred Krieg,
Supervisor of Instrument Department
Socony Vacuum Oil Company, Inc.
Paulsboro, N. J. Refinery

In all cracking and chemical processes, pressure and temperature are the fundamental quality factors upon which the basic design of the unit is determined. The measurement of pressure constitutes one of the most important measurements in the refinery. In order to obtain a product of more exacting specifications, the accurate measurement and control of pressure is essential.

Generally, special consideration of conditions is required for pressure applications. As the primary measuring element is exposed to the fluid being measured, the selection and installation of all pressure measuring instruments is governed by the corrosive action of the fluid, pulsations, and maximum operating pressures which may damage the element.

Pressure Measuring Instruments

There are several types of pressure measuring devices which are classified according to the type of primary element used as the measuring device. Those most commonly used for refinery applications include:

1—Liquid Column Gauges
2—Limp Diaphragm and Bell Type Gauges
3—Bourdon Tube
4—Spiral
5—Helix
6—Bellows

Liquid Column Gauges

The liquid column gauges include the "U" tube Figure 1, and well type manometers. This type gauge actually balances the pressure against a head of liquid of known specific gravity and because of its extreme basic accuracy it is used as a standard to establish the accuracy of all other types of pressure measuring devices. The standard mecurial barometer used to measure the pressure of the atmosphere, is a familiar example of the liquid column gauge.

Limp Diaphragm and Bell Type Pressure Gauges

The limp diaphragm and the liquid seal bell type pressure gauges are used primarily for boiler operation as draft gauges and on other low pressure applications. The limp diaphragm type gauge consists of a diaphragm of oil-treated, flexible leather which is calibrated to measure low gas pressures with a high degree of accuracy, see Figure 2. High temperatures and corrosive gases have a tendency to dry out the diaphragms and affect the flexibility of this type gauge. Since the accuracy is thus affected it is important to check the diaphragm periodically to assure proper performance of this type gauge.

The liquid seal bell type consists essentially of a bell suspended from a balanced lever arm, (Figure 3). The lower end of the bell is suspended in a liquid seal with the pressure connection under the bell. A change in pressure under the bell exerts a force which unbalances the condition of equilibrium causing the lever arm to assume a new position thus repositioning the pen arm attached to the lever arm. It is a very accurate and sensitive instrument and will accurately measure fractions of a centimeter of water pressure.

The Bourdon Type Pressure Gauge

The most widely used pressure measuring element is the Bourdon tube shown in Figure 4. The Bourdon tube pressure gauge is one of the most commonly used instruments in the refinery because of its ease of installation and low cost. It consists essentially of a metal tube of known elastic qualities bent to form the segment of a circle. When pressure is applied at one end of the tube a force is exerted which tends to straighten the tube. It is designed that for equal increments of pressure change there is a corresponding change in the linear displacement of the tip of the tube. This linear displacement is transformed into a pressure indication through appropriate linkage and rotary movement to a pointer.

In selecting the type of pressure gauge for a given application it is

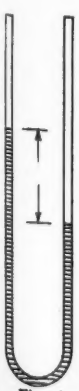


Fig. 1

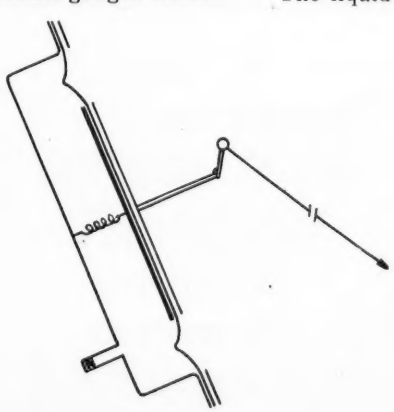


Fig. 2

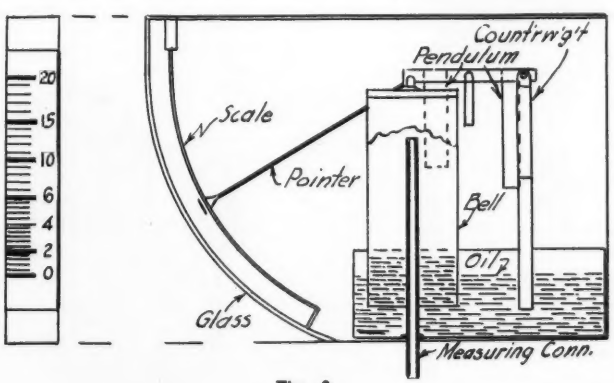
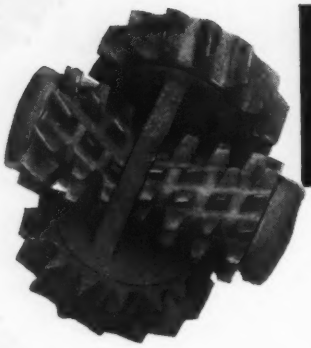


Fig. 3



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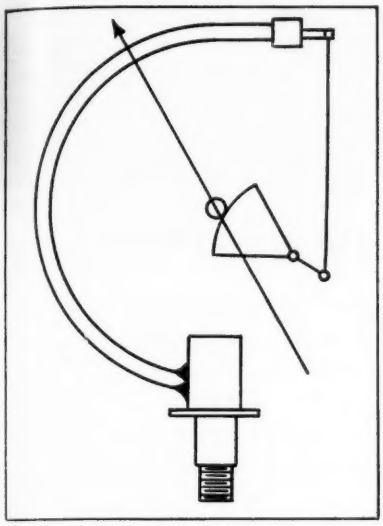

Fig. 4

important that the Bourdon be made of material specified to withstand the desired maximum pressure and any corrosive action of the measured fluid. When installing a pressure gauge on a line or unit containing explosive or combustible fluids it is important to consider the safety conditions which must prevail. Any gauge installed where possibilities of a fire exist should have a Bourdon spring of welded steel construction in order to reduce the hazard.

The simplicity, ease of installation and maintenance along with low initial cost make this pressure gauge one of the most popular and widely used instruments in the pressure measuring field. The guaranteed accuracy of the better type gauges is within ½ of 1% of the range.

The Spiral Type Pressure Element

The spiral type pressure element is essentially a Bourdon tube wound in the form of a spiral having a number of turns. See Figure 5. The theory of operation is basically the same as that of the Bourdon tube. It is used primarily in pressure recorders for low and medium pressure ranges and other applications where it is required to obtain sufficient tip travel to actuate the recording mechanism.

Helical Pressure Element

A variation of the spiral type pressure element is the helical pressure element shown in Figure 6. Like the spiral type it is a form of Bourdon tube wound in a form of helix, with a central shaft within the spiral. It is also generally used in pressure recorders as is the spiral type. The pen arm is actuated through linkage by the tip of the helix.

These helical elements are available in a variety of pressure ranges to meet the specific conditions of the job.

Metallic Bellows Type

In order to provide sufficient power to actuate recording and controlling mechanisms and still maintain sensitivity at low pressures, instrument manufacturers have developed various forms of metallic bellows. See Figure 7. Relative to the helix or spiral pressure elements, the power developed by a standard type of metallic bellows is many times greater than either. The power developed will vary with the effective area of the bellows and the amount of travel or deflection will depend upon the number of convolutions and the physical factors of the metal of which the bellows is made.

Although the metallic bellows pressure element is primarily used in recorders and controllers on low pressure applications, many are used in pressure indicators, replacing the Bourdon tube.

Pressure Recorder

On many pressure applications it is necessary to have an accurate record of the pressure under specific conditions in order to maintain a close check on the operation.

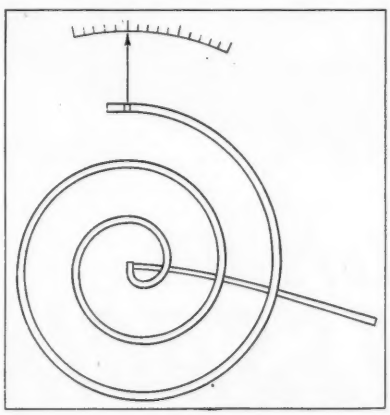

Fig. 5

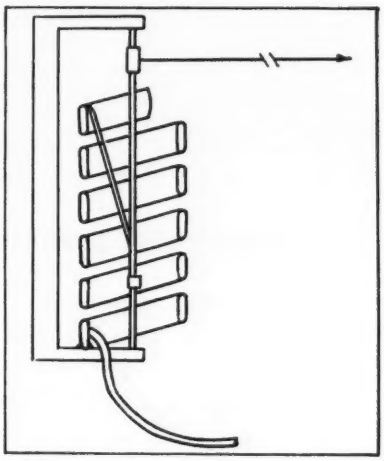

Fig. 6

For such applications the pressure recorder is available. The primary element of this type recorder consists of either a Bourdon tube, spiral or helical type pressure spring. When pressure is applied, this spring actuates the recording pen of the instrument through appropriate linkage. The chart is mounted on a hub which may be driven by electric motor of the Telechron type or by a spring wound clock.

The pressure recorder is a very versatile instrument in that the pressure range may be changed with relatively little expense by simply changing the primary element. These pressure springs are available in any standard range from vacuum to pressures up to 4270 p.s.i. and with special ranges up to 9960 p.s.i.

Another of the features of this type instrument is that four pressures or combinations of pressure and temperature may be recorded on the same chart with but slight modification within the instrument.

The Pressure Controller

There are various types of pressure controllers available to solve pressure control problems. Some manufacturers have made provisions for adapting an ordinary pressure recorder for control applications by the addition of a control unit within the instrument case. The control unit when so installed is actuated by the primary element. There are also many indicating pressure controllers for applications where a permanent record is not required.

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Insofar as control units are concerned there are three basic pneumatic controller actions most commonly used. The design and construction may vary with the different manufacturers but the functions of each classification are fundamentally the same.

The three classifications according to controller action are: (1) on-off or fixed high sensitivity, (2) proportional or adjustable sensitivity and (3) proportional or adjustable sensitivity with automatic reset.

The "on-off" or fixed high sensitivity control unit is used for simple on and off control applications where time lag is small, capacities are large and process lags are negligible.

The proportional or adjustable sensitivity control action is adaptable for throttling control on applications where process lags are present but not too unfavorable. It operates very well where load changes are small and do not occur too frequently.

The proportional reset or adjustable sensitivity with automatic reset type controller is used for precision control where demand changes are large and unfavorable process lags exist. Sudden sustained load changes may be handled with this type controller when special adjustments are made.

Pressure Regulators

Thus far this discussion has been limited to pressure indicators, recorders and controllers, however, of equal importance in the pressure field are the various types of pressure regulators or control valves.

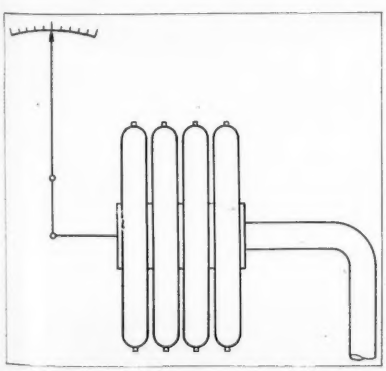

Fig. 7

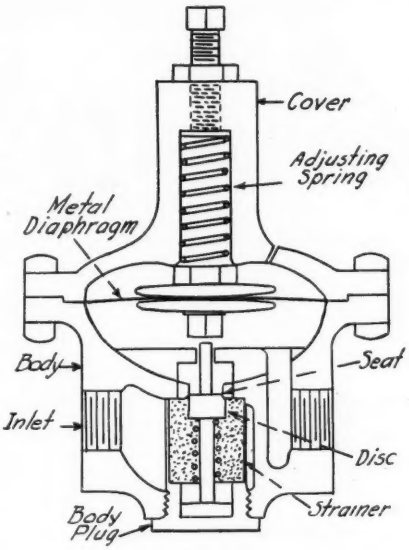

Fig. 8

It is as important to make the proper valve selection for specified conditions as it is to select the proper type controller for an application.

In Figure 8 is shown a typical differential pressure regulator where the controlled pressure is equal to the inlet pressure plus the pressure equivalent of the adjusting spring. This regulator is an inexpensive instrument for use where accuracy requirements do not warrant the expense of a pilot operated instrument. It has a single positive closing seat which makes it adaptable for dead end service. The metal diaphragm is a one piece circular disc of bronze, monel, stainless steel or similar alloys to resist any corrosive action of the controlled fluid. This valve is so designed as to eliminate the center hole in the diaphragm thus increasing its strength and reducing the possibilities of leakage.

In general the regulator as shown in Figure 8, is designed for a large variety of applications calling for low flow capacities and moderate differentials. Many types of pressure regulators, other than the type shown, are available which will handle inlet pressures up to 200 p.s.i. for service on steam, air, gas, oil or water with controlled pressure ranges starting at 1 p.s.i.

Another type of regulator in general use in refinery processes is known variously as the diaphragm control valve, diaphragm motor valve (or M.D.V.), air operated valve and by several other designations. These valves are available in types to serve all designated control purposes. It is common practice among instrument engineers to specify the valve action on air failure i.e.—air failure to close or air failure to open. This is of course governed by the safety factors involved in the process.

Figure 9 is a schematic drawing of a regulator known as the self-acting type. The range of this type valve is adjusted, within specified limits, by the spring pressure against one side of the diaphragm. When the range limits are exceeded, the spring must be replaced and in some cases the diaphragm renewed. This type regulator will maintain a fair degree of accuracy within limits, however, a large fluctuation in the initial pressure or in capacity demand will reflect in the regulated pressure. Valve sizing for applications of this type regulator is very important because of its low-lift characteristics. The rubber diaphragms require replacement at intervals and where corrosive liquids or gases are in contact with it, should be faced with a synthetic material which will prolong the life of the rubber.

Regulators of this type are in common use in refineries for back pressure and for reducing service, and it is an ideal instrument for remote installations where air is not available for pilot operation.

Pilot Operated Pressure Regulator

The pilot operated pressure regulating unit consists of the conven-

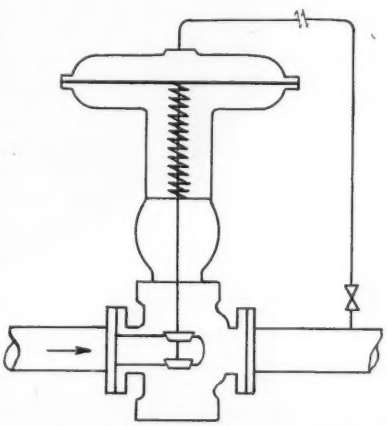

Fig. 9

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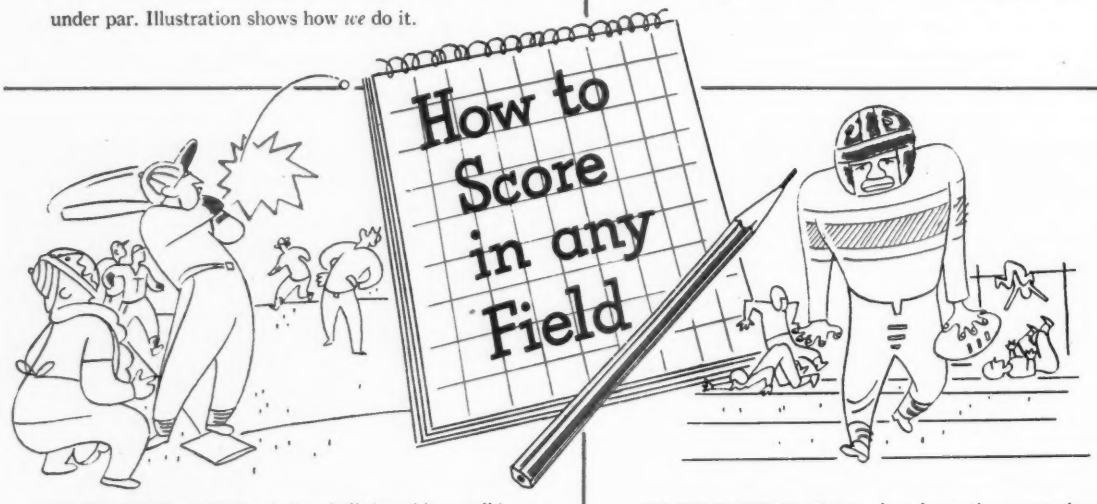

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tional diaphragm motor valve and an instrument using a Bourdon spring or another pressure element which actuates a pneumatic pilot. This valve is usually fitted with a large diaphragm which provides increased motive power for lift or stroke and improves throttling characteristics.

The controller sensitivity is adjustable within the instrument case and for most pressure regulating problems the 50 per cent maximum throttling range is generally satisfactory.

Adjustment of the controlled pressure is made by a knob and dial and for a range change the pressure element must be replaced. The pilot may be remotely located or attached to the diaphragm motor valve structure and used with any valve designed for the conventional 2 p.s.i. to 13 p.s.i. diaphragm.

The flexibility of this type unit makes it applicable for many installations and also provides closer control than the type previously described.

Pressure Control Application

An application of the self-acting and the pneumatic pilot operated types of regulator are illustrated in Figure 10.

As shown, this installation requires the use of two pressure regulators due to the 1300′ distance between the pump and the drum filling room. The pump and self-acting regulator "A" are located in the tank field where air for pilot operation is not conveniently available. This valve, regulating steam to the pump, is adjusted to open on

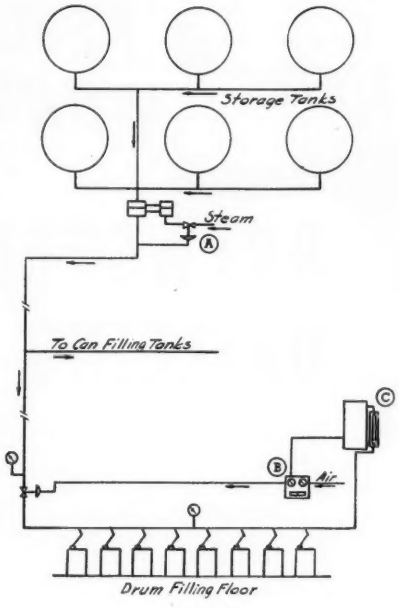

Fig. 10

a pressure decrease and to close at 996 p.s.i.

The drums are filled directly from the oil line using automatically operated filling nozzles. The high pressure (Approx. 512 p.s.i.) at the nozzles, previous to the control installation, causes the filling nozzles to operate erratically.

To reduce the line pressure on the filling nozzles and at the same time maintain pressure sufficient to supply the required volume, the air operated control unit "B" was installed in the filling room. Item "C" is a capacity chamber to cushion the shock when several of the filling nozzles close at the same time. The pressure tap for controller operation is taken from this chamber.

Several installations of this pressure control application at the Socony-Vacuum Paulsboro Refinery have given 4 years of satisfactory performance.

Tower and Vessel Pressure Control

One method used at the Paulsboro Refinery for pressure control of receivers, towers and other vessels is illustrated in Figure 11. In this installation the receiver operates at a pressure slightly lower than the tower pressure to overcome line resistance. A more sensitive control of the receiver pressure is provided by using the controlled vapor by-pass than would be available using only the water regulator. The two valves are operated jointly from one pressure tap and by one control instrument as follows: The by-pass valve is open and the water valve closed with zero p.s.i. pressure in the receiver. This condition prevails with maximum instrument air pressure on the valve diaphragms. With a decrease in air pressure the water valve opens and the by-pass valve closes. The water valve closes with an increase of air pressure from 0 p.s.i. to 7.5 p.s.i., and the air pressure increase of 7.5 ps.i. to 13 p.s.i. causes the by-pass valve to open. This is accomplished by suitable selection of the valve springs. With this application, hunting is reduced

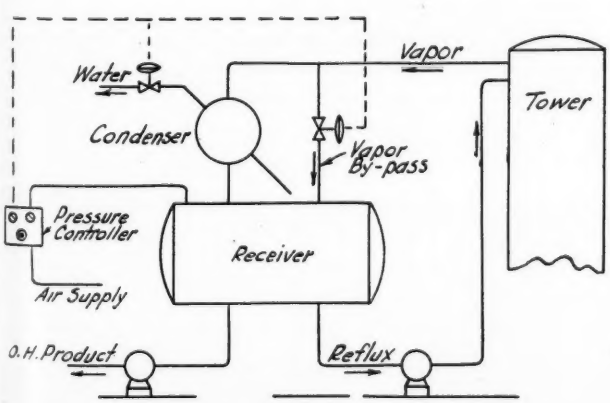

Fig. 11

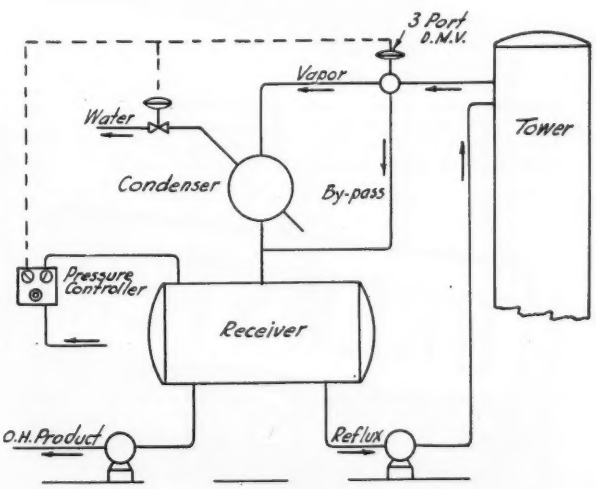

Fig. 12

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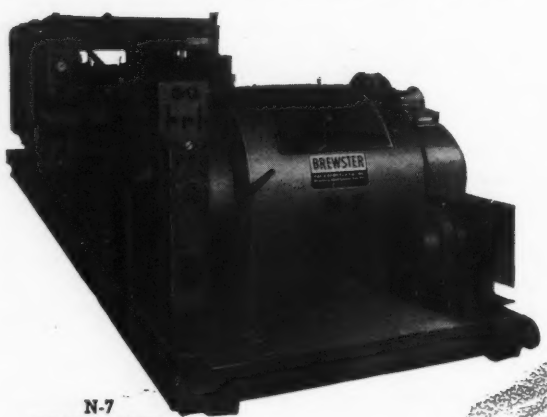

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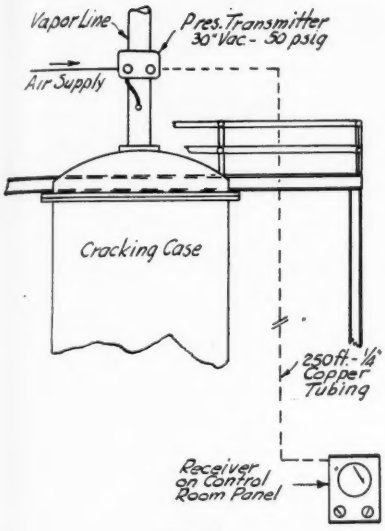

Fig. 13

and valve response to pressure changes is more rapid. Hunting is often prevalent when a water regulator is used alone. On installations of this type, heat transfer in the condenser governs the speed of pressure change correction and too great a correction may be made by the water valve causing the pressure to fall below the control point. Over or under-shooting of the control point is prevented by the vapor by-pass valve operating in the opposite direction.

In cases where the pressure drop through the condenser is very low a large vapor by-pass valve would be required to route effectively the vapor to the receiver. The installation of a three port pneumatically operated valve has been found advisable on such applications to force the vapors through the by-pass as shown in Figure 12. The vapors to the receiver and condenser are proportioned by the three port valve in volume depending on the port openings. The condenser port of the valve closes and the by-pass port closes with approximately 7.5 p.s.i. to full pressure, and vapor flows in both directions at intermediate positions. This installation affords accurate control of receiver and tower pressures and has the advantage of positive action with a variable pressure drop through the condenser.

Pneumatic Transmission

Safety, as previously stated, is of foremost importance in the selection, application and installation of instruments. This is particularly true of present-day applications on elevated pressures. The explosive nature of many processes, due to gaseous atmospheres, prohibits the use of electrical transmission. Pneumatic transmission is generally used for installations of this type and also where lengthy pipe runs would be required.

The pneumatic line used in this system is inexpensive ¼" copper tubing. This type tubing is easily run, formed and connected in ducts or supports and when obtained in the 50' and 100' coil lengths, eliminates the possibility of leaky fittings and the problems of explosion-proof fittings, cases etc., required with an electrical transmission system. Pressure measurements may be transmitted to a distance of 1000' with assurance of accuracy and rapid response and of pen positioning to within 1/1000 of the instrument scale range.

Normal vibrations do not noticeably affect the accuracy of this system, and errors due to hysteresis, ambient temperature changes, or a variable air supply pressure are eliminated. The versatility of the system makes possible many combinations adaptable to control problems. Three different records are possible on one chart, with one manufacturer's system, with the case designed to accommodate three (3) separate receiving elements.

An application of pneumatic transmission at the Paulsboro Refinery is connected as shown in Figure 13. A pressure transmitter is mounted at the vapor line from the vessel. With a pressure range of 30" vacuum to 50 p.s.i. the instrument indicates and transmits the measurement pneumatically to a recorder on the main control room panel. The recorder mechanism includes a mercury switch, which is interlocked with the timing device controlling the electrically operated phase valves in the process unit.

A steel tubing line approximately 300' long would be required to run from the vapor line to the recorder on the panel if the pneumatic transmission system was not used. The steel tubing would cause considerable trouble due to condensate and frequent plugging of the line resulting in erratic measurement. Obviously with the pneumatic transmission application the above conditions are eliminated.

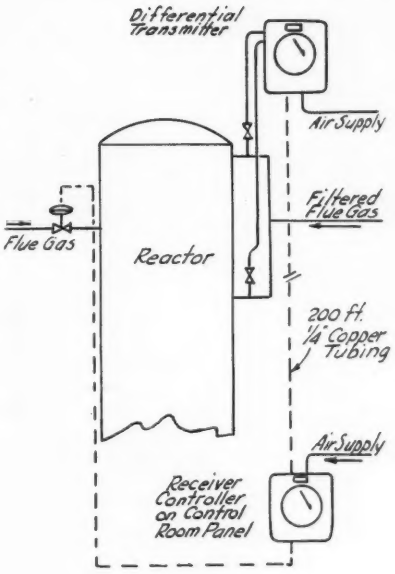

Fig. 14

Another installation where the pneumatic transmission system is required is shown in Figure 14. In this problem it was necessary to indicate, record and control differential pressure across two points on a process vessel.

The pressures are measured by an instrument located at the top of the vessel near the taps and is transmitted pneumatically to a recording controller on the panels in the control room approximately 250' distant. The flue gas required to maintain the set differential is controlled by a diaphragm motor valve actuated by a positioner.

The pressure taps into the vessel are continuously purged with filtered flue gas injected through a small #70 drill orifice in a steel union installed in a position to direct the flue gas stream toward the vessel. These small orifices and the filters require occasional cleaning, however, operation of the installation has been satisfactory with a minimum of maintenance.

On clean liquid pressure measurement installations the purge lines are omitted.

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Pioneer Organization Meets Industry Need

Although petroleum clubs, associations and societies are already legion, there seems to be always room for another, particularly if it has some basis in sanity, is of a non-profit character, and is designed to perform a service to the industry or its people. This is well exemplified in the origin and growth of the Petroleum Production Pioneers, a young, robust organization that is just over three and a half years of age but has already assumed the proportions and responsibilities of a much older child. Membership at the moment of going to press is in the neighborhood of 750, and although qualification requirements are decidedly severe, and no concerted effort has been made to enlarge the roster, it still continues to expand at a steady pace. The affairs of the group are directed by J. E. "Jim" Gosline, assistant general manager of Standard of California's producing department, and a resourceful planner. Carried over the difficult preliminary hurdles very successfully by Henry Grinnell, vice president of Key Contractors, Inc., Petroleum Production Pioneers in the past two years has been piloted into a position of real stability by the fine leadership of Jim Gosline.

This interesting association started in rather a casual way back in early '44 in an oil field cafe. Three lads—Lou Bronzan, the Baash-Ross exec, Glenn Merkley, one of National Supply Co.'s up-and-comers, and Henry Grinnell, then Union Oil Co.'s superintendent of shops and maintenance — had met there for lunch. It may have been some indecision as to who should pick up the check that kept the conversation going, but in any case, after drifting hither and yon, as lunch debates will, the talk focused on the need for some sort of organization to provide a continuous medium of contact for the older petroleum production workers, many of them retired, and the younger men now in charge of field operations, or on their way to such important responsibilities.

The trio seemed to come to fast agreement that there was a definite place for some thing of the kind, and they forthwith began to expound and expatiate until they had developed more concrete thought on the subject. After another lunch meeting at which further brow wrinkling took place, a working plan began to take vague shape, and it was decided to call together a representative group of oil and equipment men to test their reaction to the basic idea. It might be mentioned here that every true production man is conscious of the part played by the equipment designers in the development of production tools and techniques, and has no doubts whatever about the mutual interdependence of oil man and manufacturer, or their joint accomplishments. To continue, however, a meeting was set for January 26, 1944, and about thirty persons, including such old timers as A. E. Fowks, Denny Driscoll, F. F. Hill, Len Little, Ben Youngken, Frank Dinger, George Kammerer and Lawrence Baash were present.

Henry Grinnell, one of the organizers, and first President.

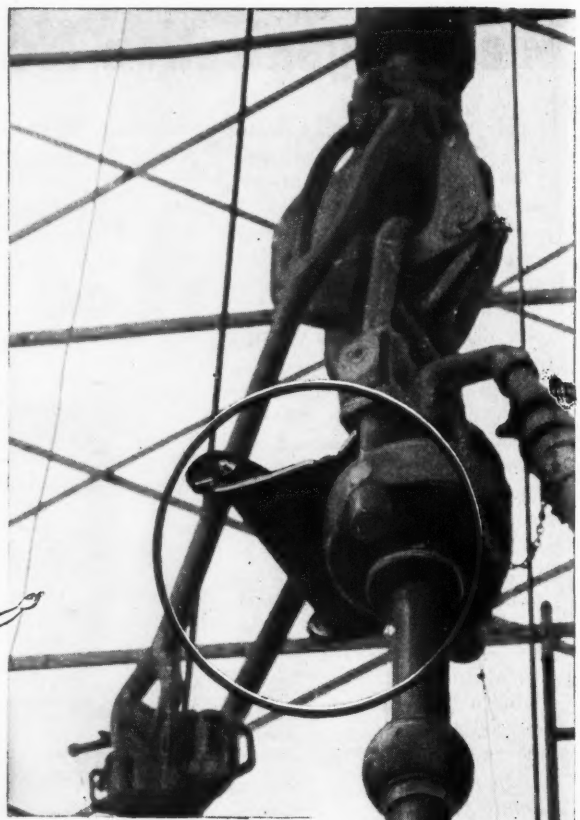
Prexy Jim Gosline in action at the microphone. Jim has held the presidency for the past two terms and has done a top-notch job in spite of the press of other matters.

Henry Grinnell, chairman, briefly outlined the function of a pioneer production mens association, as it had been conceived by the originators. Ostensibly it called for a meeting every three months, all the preparations and arrangements for which were to be carried out by a number of junior members. It was contended that the "youngsters" would thus be able to avail themselves of the valuable experience and general knowledge of long time operators, and that the gatherings would be beneficial for both. It was felt also that some opportunity for maintaining contact with the industry and with each other would be especially appreciated by retired production men, for the fellowship of a life time of interesting and agreeable association can not be disrupted abruptedly without unpleasant consequences of some sort.

The upshot of the meeting was that a **pro tem** committee composed of Lou Bronzan, Glenn Merkley, Henry Grinnell, chairman, and Ernie Fowks, was appointed to sit in with Frank Hill and Len Little, and formulate plans for the organization of a production pioneers' association. These were to be presented to a still larger group when ready. This organizing committee did some very fine campaigning which interested such individuals as Jim Gosline, Cy Rubel, the late Walter Elliott, Max App, Al Fraser, Clarence Hill, Wendell Jones, George Trembley, Jules Axelson, Prep Wells, Ted Sutter, and many others of sub-

The Movie Director yelled "Quiet!"

So the tool pusher installed a PATTERSON-BALLAGH Swivel Bail Bumper and got a double pay-off...



CASE HISTORY No. 27

True, it could only happen in Hollywood but any drilling operator can cash-in on the benefits of silencing his rig.

The operator was drilling on a hillside just above a movie sound studio. The director complained that the noise of the rig was ruining his million dollar picture. He wanted the entire derrick sound-proofed. The tool pusher heard the story, figured the trouble was the sharp clang of the raw bail beating on the swivel. He ordered the installation of a Patterson-Ballagh Swivel Bail Bumper. The rig was silenced, the director quieted, and the picture saved.

The operator saved far more than the cost of sound-proofing. He saved wear and tear on the swivel and bail, reduced Kelly whip and got a smoother operation. The PBX Special Rubber Bumper prevented metal-to-metal shock, and he realized that any noise due to needless raw metal pounding is the death rattle of expensive equipment.

Patterson-Ballagh Swivel Bail Bumpers save far more than their cost, over and over. Your Composite Catalog shows how they are made to fit popular swivel types and how the PBX Bumper Rubber is easily replaced after a long use-life. Order from your Patterson-Ballagh man ... you will enjoy the silence a Swivel Bail Bumper gives—it makes the click of profit dollars in your pocket so much louder!

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stance in the production end of the business. Without going into a monotony of detail, the committee finally offered a tentative structure, on the basis of which Petroleum Production Pioneers was firmly founded, with two types of membership, seniors and juniors, to be maintained in the ratio of 4 to 1.

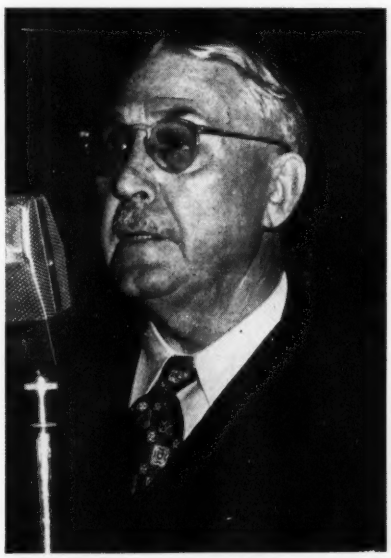
Qualifications for the two types of membership were roughly as follows: **Seniors:** 30 or more years experience in production or related phases of the petroleum industry; or in the design and manufacture of tools or equipment for the production or related phases of the industry; or in the purchase of tools, equipment, or technical services for the production and related phases of the industry; applicants for senior rating need not be employed at the time of making application. **Juniors:** 10 or more years in any of the above categories and at the time of application active in a technical, managerial or supervisory capacity. Each junior is required to submit the applications of four eligible seniors with his own. The dues for both classifications were fixed at a very nominal figure, and on virtually that basis the Petroleum Production Pioneers has existed up to the present time.

Worthy of encouragement are the cultural aspirations of this organization. The members have set themselves the task of compiling an accurate, authentic, yet distinctly human history of the California petroleum industry. Ted Sutter, who is in charge of this program has the full support of the membership in his belief that the history of California oil would be very inadequate without a recital of the personal experiences of the pioneer prospectors and producers. There is much that is traditional in the growth of what its people believe to be one of the greatest examples of free enterprise extant, and any attempt to chronicle the episode and event that together constitute this saga of industrial achievement would be cold, indeed, without the incidental drama and pathos that gave it life.

It is that kind of a history that Ted Sutter is determined will come from the efforts of Petroleum Production Pioneers. It just can't be done without patience to probe every

Ted Sutter, Baker Oil Tools, Inc., is chairman of the historical committee, and has been on the executive board since its inception. He directs a program the objective of which is to complete an accurate and authentic, but still human, history of the California petroleum industry.

available information source. It can't be done without the petrolic understanding—the feel of the oil man's reaction to every shred of experience—his exultation over success; his dogged determination in the face of almost insurmountable obstacles. And above all, his loyalty to a life that he loves, even when it has given him the roughest



One of the most active of the old timers, and a member of several of its most important committees is Frank F. Hill, former director of production for Union Oil Company of California.

kind of usage and the poorest kind of luck. It is a pitiful indictment of the industry itself that the evolution of petroleum production in the west from the first strugglings of the earliest pioneers to the highly scientific efforts of modern operators is not already a matter of record, for it is certainly replete with the stuff of which living, breathing history is made. And, remember, it is not only a significant chapter in the development of our present industrial efficiency. It is vastly more than that—it is an exciting and eloquent contribution to the elevation of human living in every corner of the world.

This program is to be given some impetus by the preliminary preparation of an album of biographical sketches, in which will be gathered the facts relating to those particularly important historical events of which the person involved has direct knowledge. Here again it is the intent to take cognizance of such humor and pathos as may be found in the adventures and accomplishments of the pioneers. There seems little question that if an orderly effort were made to accumulate the mass of pertinent information now locked in the memories of hundreds of **living** pioneers, who were actual eyewitnesses of, or participants in, the interesting events of this history, that period between 1900 and the present time could still be covered completely and well. It must be done soon, however, or another decade will have dropped into the limbo of the forgotten, and the digging will be just so much more difficult.

Another objective in the forward-looking humanitarian and cultural program of the Production Pioneers is the ultimate institution of an industry museum that will house a library of pertinent literature and art, including records, written and photographic, of all the important events in the chronology of California petroleum. In this same building will be exhibits of the tools and processes employed in the finding and production of petroleum from the earliest times to the present moment. Already steps are being taken to prevent the further destruction of old time field equipment and tools, and to set aside any such items as seem to be fitting for such a display. It is also the hope of the Production

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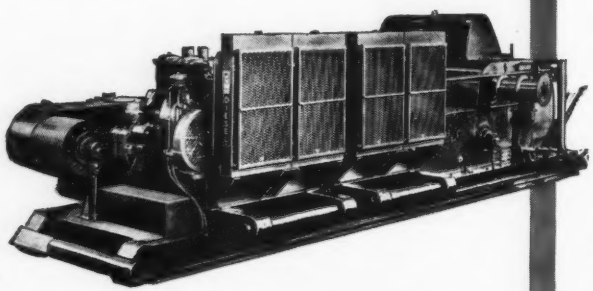
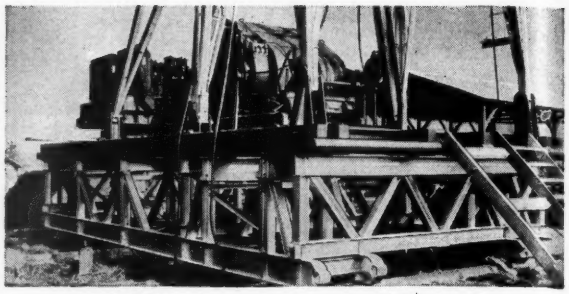


A pair of GM "Twins" compounded is the power for this "Unit Rig" draw works.



Two GM "Twins" drive this "Emsco" model 500 rig of the Drilling and Exploration Co.

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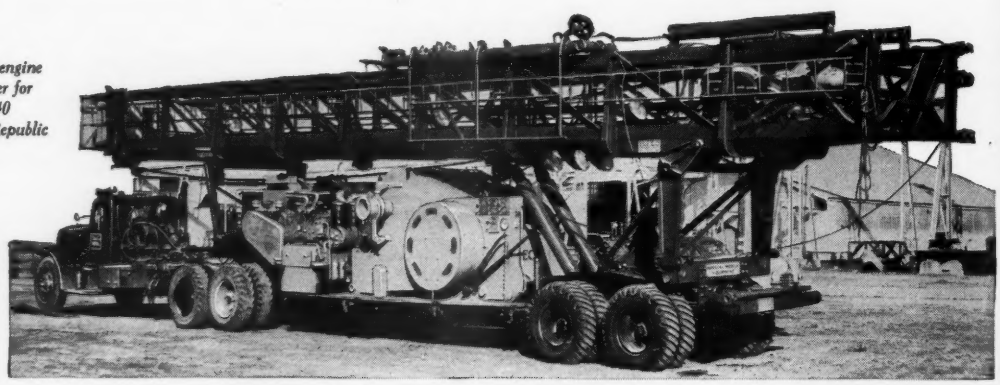
"General Motors "Series 71" Diesels are playing a particularly important role in this picture. They pack plenty of power, yet their sensible size and weight make them easy to move and set up. Efficient, factory-built, multiple engine units are available. Virtually every power need can be easily filled.

"Single "six" engines deliver a tough continuous 130 BHP. Two "sixes" side by side become a "Twin" with 260 BHP. Four "sixes" as a "Quad" are ready to deliver a full 520 BHP."

ALL GM Diesels are 2-cycle, with power at every downstroke. Every piston works all the time, doesn't loaf through every other revolution. So power is smoother, acceleration is faster under load and the engines can be more compact and simpler to maintain.

These are important qualities in oil field power. So it's certainly worth while to get all the information on these Diesels. Drop us a line and we'll see that you get it.

One GM "Twin 6" engine provides all the power for this "Ideco" model 40 portable rig, of the Republic Supply Company.



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Pioneers that at some time they may be instrumental in the financing of club rooms in which field men, active and retired, may find opportunity to consort in the proper atmosphere and general surroundings.

It should perhaps be explained that the Petroleum Production Pioneers has two sets of officers in the higher brackets. Besides a president and vice president, there are an honorary president and an honorary vice president. These latter are chosen by and are the direct representatives of the senior members. Being pioneers, they think and act in the manner of their brothers, and are thus well qualified to act for them in matters of state. The first person to occupy the top post in this category was Len Little, retired Standard of California production chief, a pioneer in rotary drilling, and proprietor, it is rumored, of one of the finest gardens in San Marino. Len goes hunting occasionally with old associates such as Cy Bell, but between his garden and the golf course, both of which he digs up in a very similar manner, he has little time left for traipsing the woods.

Len's successor was Frank Hill, former Union Oil Co. productive executive, whose memory has never quite received the tribute it deserves. Frank started in the production end of the oil business just about 1900, and is amazingly clear in his recollection of what he saw and did in the almost half a century that he spent in responsible field work in all parts of the West. Besides the engineering and administrative acumen that carried him to a top post in the industry, he has a fine sense of humor, an inexhaustible fund of interesting and amusing information, and he knows how to dispense it to the best advantage.

At the present time, W. R. "Dick" Guiberson of the W. R. Guiberson Company is honorary president. Dick was born and spent the early part of his life in Santa Paula where the western oil industry really had its birth, and was to all intents and purposes born an oil man. He has been a highly successful one, too, but despite the commonly held belief that to be successful, oil men must be rough, unsentimental guys, Dick is a cultured individual who in his spare moments writes very good poetry, and he has had a swing around the world as a concert singer. That seems to be a surplus of talent for one lone individual, but he carries it all with a degree of modesty that makes it nice to know him.

W. L. McLaine, the General Petroleum Corporation production executive, who was once retired but is now busier than ever, will automatically become honorary president for the next term. He is a soft spoken sort of a gentleman, born in Amador County, in the Mother Lode country, and has for the past 46 years been garnering an experience in the production end of the oil business that is priceless. Billy is the inventor of a number of mechanical devices, many of which are still

Top, left to right: William Stroud, General Peeler, Bill McLaine, Neal Anderson, Dad Wilcox, Frank Hill, Len Little, H. H. Maddren, and A. A. Lang. Middle row: George Kenniston, Fred Ripley, Sr., John Peat, R. R. Smith, A. E. Fowks, Holly Hayter, R. P. McLaughlin, Denny Driscoll. Bottom row: Frank Brayton, Ben Youngken, W. M. Brown, Frank Dinger, and John Grier.

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Pete Irwin, Bethlehem Supply Co., officiates at the squeeze box, while Glenn Merkley, Charley Perkins, Lou Bronzan, Tommy Atkinson, Allen Hambly, and Dick Sneddon sing in lusty chorus.

in wide use in the industry, and for diversion takes natural color photographs that look more realistic than the real thing.

Serving with Henry Grinnell as vice president in the first year and and a half was George Trembley of Howard Supply Co., well known for the luridness of his sports shirts, the high caliber of his golf, and the fact that he is the organizer of an extremely important part of the Pioneers' set-up, namely, the Trembley Bailers. These lads are to be found at every PPP party and barbecue, dressed in the style of Diamond Jim Brady and slinging thirst quenching concoctions with a fine abandon. Among them are that sauve gentleman of the Deep South (South Alameda Street, that is), Ted Forsythe, the Emsco Kid, whose sweeping mustache is frequently used by the State Meteorological Department to determine the direction of the wind; Lee Bushard, the Stancal lad with the fine features and the fine sense of sufficiency — he can tell when you have had enough by merely examining the bottle to see how much is left; and rounding out the quartet is Sir Hudson Drake, discoverer of the Hudson Bay — he discovered it on a map one day. Hudson is sometimes known as the Belridge Bibber, and can crowd more **aqua fortis** into a jigger than can Sandy McMashie when he is pouring himself a free one.

It has been popularly bandied about that The Bailers who have served so nobly since the inception of the organization are about to receive some welcome relief. Being added to the squad, or so the street has it, is John O. Hills, the ingenious lad who first discovered that the speed of the flying horse was due to a built-in diesel; Charley Perkins, treasurer of PPP, purchasing whiz for Union Oil Company, and a Nineteener who can lash the sward viciously without moving the ball so much as an omicron (Oh yeah! Well it certainly sounds like some kind of a measurement); Clint Eddleman, p.a. for Amerada Corporation, and growingly popular lad who is never found without a bottle opener. In this labor of love, Clint is well qualified to make some valuable contributions to the science of elbow bending; and last but certainly not least is F.D. ("D" for Dutch) Lortscher, the Signal Oil & Gas procurement authority whose knowledge of potions and libations indicates that he must have had a chemical set when he was a boy. In any case, all of these neophytic punch purveyors will take the place of the regular gang for some interval in future gatherings, and so provide them with a few moments in which to say to their countless customers something different from, "What'll you have?"

In charge of membership, and doing a mighty sharp job, with the

A popular quartet at every Petroleum Production Pioneers gathering is this group, known as the Trembley Bailers. From left to right they are: Lee Bushard, Standard of Calif.; Hudson Drake, Belridge Oil Co.; Ted Forsythe, Emsco D & B., and George Trembley, Howard Supply Co. Their function is to lay the dust.

New National Magazine Campaign Spotlights Petroleum's Progress

Understand Rivalry and you understand America

RIVALRY is Dad forgetting his stiff back to grow the best tomatoes in town. Rivalry is Mom's determination to make a better cake than Mrs. Brown. From county fairs to quiz programs, from baseball games to business, rivalry is in America's blood . . . a thrill and a challenge. We've outdistanced the world because we like to outdistance each other.

Take the American Oil Industry, made up of more than 34,000 individual firms of all sizes. In this competitive business 1,250,000 people make their living in oil production, oil transportation, refining, research, marketing.

Here rivalry spurs progress—finds ways to provide Americans with finer petroleum products at the lowest prices in the world . . . better gasoline, lubricants and fuel oil . . . better things from petroleum in a hundred fields—chemistry, medicine, farming, manufacturing.

The result—better health, a chance to go more places more easily, more comfort . . . more . . . *constantly* more, for you.

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By "directional drilling," oil wells can now turn corners underground. By advancements such as this, 13,476 oil production companies help build up America's oil reserves.

Today's tankers speed at a rate 50% faster than 20 years ago. 650 companies engage in oil transportation by tanker, barge, pipe-line or rail. Result—better service, lower costs.

Keen competition in refining techniques has developed finer fuel—for planes like Jet P-80 and your car. Some 400 refiners are responsible for over 1200 different oil products.

Over 20,000 distributors and jobbers compete to serve you. Example: fuel suppliers chart daily temperatures, forecast your needs according to weather, work to keep you supplied.

225,000 service stations compete for your favor. Each vies with his neighbors in serving you. Over half a million people are engaged in this familiar phase of the oil business.

Prepared for the Oil Industry by the American Petroleum Institute Copr., 1947

"Understand Rivalry and you understand America"...

That's the theme of the new national magazine campaign recently launched in *Life, Saturday Evening Post, Collier's* and *Look* to explain to the public why "there's a *plus* for you in petroleum's progress." With a dramatic series in pages in full color and black and white—the above ad is the first—the story of *your* business . . . and *every* business . . . is being told to an audience of more than 58,000,000.

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You know that everyone in every phase of the oil business has a big stake in this campaign. You know the support of *every* oil firm is needed *locally*.

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To help you tie-in and support the program through your own company—a detailed Plan Book has been prepared.

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Send for your free Plan Book at once. Be one of the first firms in your section to take advantage of a "big time" tie-in with the big time national campaign. Mail this coupon today.

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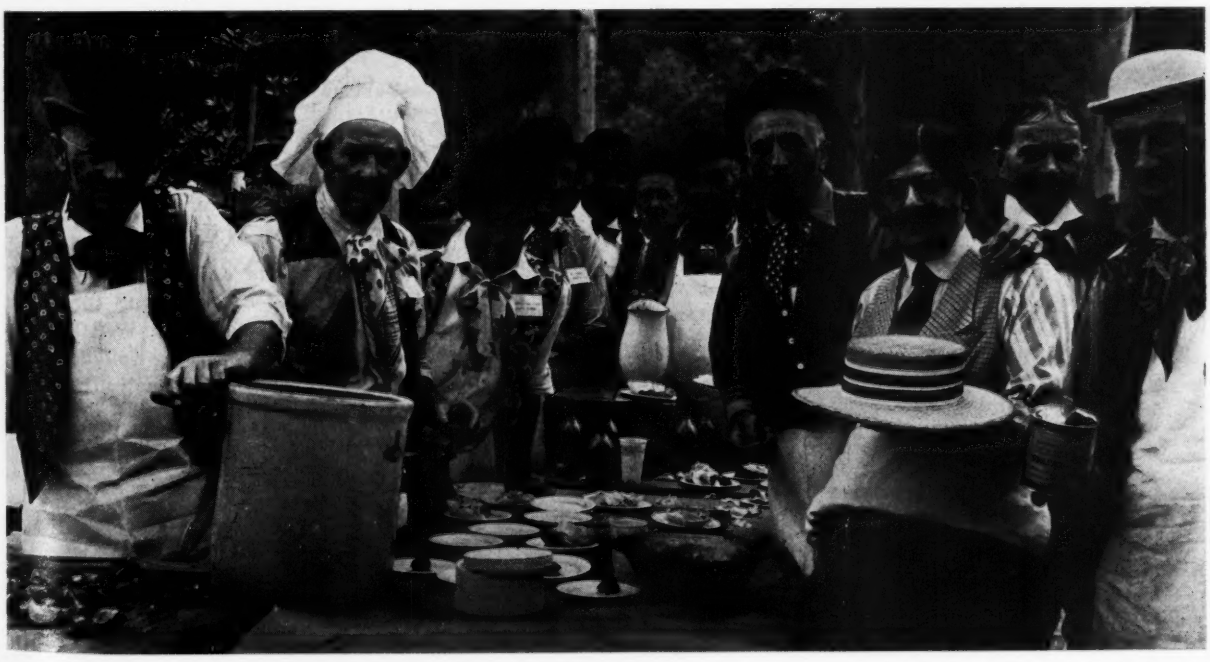
assistance of Frank Hill, Warren Johnson, George Ruggles and Sam Kelly, is Joe "One Way" Siegel, the Kobe lad who recently wound his way into a **cul-de-sac** in North Long Beach and escaped by the simple expedient of unwinding. Joe has built the roster from around 150 to 750 without striking a false note, and this although, as already indicated, he has to conform to a pretty rugged list of qualifications. (Warren Johnson recently replaced Ed Webb who has been transferred to Ponca City). Sergeant-at-arms and arranger extraordinary is Ox Morgan, the Byron-Jackson powerhouse, and running interference for him is Larry Coker, another member of the B-J brood. Between them these two can conjure up more food in an afternoon than a Parisian black marketer. Ox is a slightly mysterious individual who once played a mean game of college football, but now derives his amusement from distracting the attention of snooker pool players and pilfering the balls off the table on which they are playing or adding to them balls he has pilfered elsewhere. In spite of such shortcomings, however, he has been an active factor in building Petroleum Production Pioneers to its present substantial status.

On the executive committee but not so far mentioned are the following: Tommy Atkinson, assistant district production superintendent of General Petroleum Corporation, a well regarded citizen of Alhambra and a fisherman of note. One of the fish that got away from Tommy up in the High Sierras was so big that he sprained a ligament in his left shoulder telling another fisherman the size of it. E. L. "Deck" Decker of Martin-Decker Corp., unquestionably a man of weight in the industry, and a decidedly useful member of this organization. Deck has been helpful in many ways, but has been particularly active on the important constitution committee of which Ted Sutter is chairman. He is an enthusiastic equestrian and has been responsible to a large extent for the maintenance of many of the bridle paths that make the local riders happy. Latest recruit to the executive committee is Warren Johnson, southern district production superintendent for Standard of Cal. Warren is a personable chap who, when the occasion demands, does a bit of M.C'ing that makes Clifton Fadiman look somewhat amateurish, and he has other capabilities that should make him a valuable addition to the executive group.

It wouldn't be quite fair in a treatment of this kind to ignore the excellent work done by Marcus Mattson of the legal firm of Lawler, Felix and Hall. In a tussle with the Secretary of State, Marc came out winner, and the organization was able to retain its present title, a concession that looked distinctly uncertain for a time. He is now in the process of preparing Articles of Incorporation and Bylaws, and generally seeing to it that Petroleum Production Pioneers are in every respect free from encumbering habits and associations. Outside of all his profession, and can even be induced to join a quartet if properly approached. Then there is H. H. "Bob" Roberts, the publicity chairman who never gets any publicity for himself although he has long richly deserved it. Those of us who are in a mild way doing Bob's kind of work know that he is tops in his profession, and that any group for which he handles the public relations is a cinch to get good publicity and plenty of it. Bob, unknown to many of his friends is a



Good food is one of the main attractions at the functions of the Petroleum Production Pioneers. Here Pete Connor, one of the Southland's best barbecuists, and his kitchen aides, are shown in typical regalia. Pete is the lad with the Chef's hat on. Others noted as intruders are Pete Erwin, Joe Siegel, Tom Selser. Up front and to the left is Nick Nicodemus.

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really good tennis player. Indeed, the only thing that has kept him from being national champion is Kramer and four or five hundred other guys.

Now skimming quickly through the membership roster for interesting items, it might be noted as evidence of maturity that it carries the names of eleven Smiths and seven Jones. Also to be remarked are two unusual trios, the first consisting of A. E. Fowks, former Union Oil Company executive, and his two sons, Ernie and Al, all senior members. The elder Fowks probably has the longest oil industry service of any man in the Production Pioneers. He began his oil career almost seventy years ago, and he looks hale enough to do another thirty years of it. The other trio consists of Lewis E. Spear, prexy of Pacific Wire Rope, and his two sons, Albion and Emerson, also all senior members. The elder Spear came south from San Francisco in 1909 to engage exclusively in the oil business, and has been at it ever since. He is now gradually relinquishing the ardors of business management to Albion and Emerson, both of whom date their oil field experience from 1913, but although almost 80 years of age, Mr. Spear continues to exercise an active interest.

The social affairs of Petroleum Production Pioneers have revealed something that has a significance which its officers have recognized, and the organization has profited accordingly. It is this simple fact: Old time oil men are more interested in the oil business than they are in flossy entertainment. There is every evidence that these meetings, in which the members are practically permitted to make their own entertainment, are just what the doctor ordered. In the rash of reminiscence that possesses the pioneers as they bump into old acquaintances and recall old happenings, they seem to find a joy that transcends anything extraneous performance can offer. The principals of PPP have arranged ample time at all their gatherings for this kind of contact, and continuously increasing attendance are the proof that it is a wise thing to do.

It is rather dangerous in this sort of article to mention anyone by name, because one is certain to leave out many others equally worthy of mention. There are so many members who have interesting and exciting experiences to disclose, but space, time and human capacity are limited. In any case, the total story is so big that its ultimate narration will require the combined efforts of many people. That perhaps will be acceptable as an apology for failure to include the names of a host of pioneer members who by every measure have earned public approval. The record will be completed! Of that, the sympathy of the members, Jim Gosline's determination, and the competency of his aides are the best assurance in the world. Petroleum Production Pioneers as an organization is necessary. Its function is sound. It has the strength of cohesion and the drive that comes from young, vigorous, intelligent leadership.

Recognizable in this group of choristers are Henry Brett, Steve Gurasich, Leo Cypher and Norm Foster.

An Unusual Visitor

He dropped into my office with a grin upon his face,
He talked about the weather and the college football race,
He asked about the family and he told the latest joke,
But he never mentioned anyone who's suddenly gone broke.

He talked of books and pictures and the play he'd been to see,
A clever quip his boy had made he passed along to me.
He praised the suit of clothes I wore, and asked me what it cost,
But never said a word about the money he had lost.

He was with me twenty minutes, chuckling gaily while he stayed,
O'er the memory of some silly little blunder he had made.
He reminded me that tulips must be planted in the fall,
But calamity and tragedy he mentioned not at all.

I thought it rather curious, when he had come and gone,
He must have had some tales of woe, but did not pass them on.
For nowadays it seems to me that every man I meet
Has something new in misery and moaning to repeat.

And so I wrote these lines for him, who had his share of woe
But still could talk of other things, and let his troubles go;
I was happier for his visit—in a world that's sick with doubt,
'Twas good to meet a man who wasn't spreading gloom about.

—Author Unknown.

McCullough

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•

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of just where pipe is stuck, and

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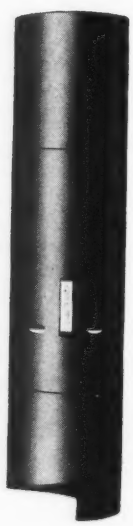

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where pipe
is stuck

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With Drilling Contractors

One of the largest aggregations ever of contractors and members of allied industries is promised for the seventh annual meeting of the American Association of Oilwell Drilling Contractors at Long Beach, October 13-15.

The attendance from the Rocky Mountain and Mid-Continent areas and the East is expected to be great.

Brad Mills, executive vice president of the association, has disclosed that the Texas and Pacific Railway has offered to run a special train from Fort Worth and Dallas to Long Beach, via El Paso, to accommodate those planning to attend the convention.

The special train probably will leave Fort Worth and Dallas on October 10 and arrive at Long Beach on October 12. Arrangements will be made permitting Houston, South and East Texas, North Louisiana and Oklahoma delegations to join the train at Dallas or Fort Worth, or at El Paso, if desired.

California contractors and supply companies continue to work on a program of wide diversification for the convention, which among other events will feature the best entertainment the Southland can provide. The meeting has been fully financed.

The affair will include space for manufacturers to exhibit oil tools and other equipment used in producing oil.

Doug Graham, Dunlap & Graham of Long Beach, is chairman of the housing committee. He is requesting hotel reservations as early in advance of the meeting as possible. He disclosed that visitors from the nation's oil areas plan to stay a few days before and after the meeting.

Severns Drilling Co. has added another producing well in the Alondra area for British-American Oil Producing Co., with the completion of Park Comm. No. 1 at 9238 ft.

Drilling operations in the well were held up for 50 days by a major fishing job, resulting from more than a mile of pipe sticking between 3600 and 9215 ft. Successful termination of the job brought considerable credit to the drilling crew.

Severns Drilling rewarded the crew's outstanding work with a literal fishing expedition off Port Lido near Newport Beach. A special boat to accommodate the crew was chartered for the day. The crew was made up of four tours and a toolpusher or 21 men.

Oil field supply houses joined in presenting prizes for the heaviest and best fish catches during the day. Those donating prizes included H. C. Smith Oil Tool Co., Shaffer Tool Works, Antelope Mud Co.,, Republic Supply Co., R. J. Baker Vacuum Truck Co., Haddock Const. Co., Ben Long and Bob Johnson.

British-American has given Severns contract for Bodger No. 4, its next well in the Alondra area. It will drill north of Compton boulevard and west of the school house property, where Petrol Corp. has cellers dug for two projects.

Shamrock Drilling Co. has two strings of tools running for Union Pacific Railroad in the Wilmington field. They are U. P. No. 391 and No. 410, drilling below 4500 ft. Shamrock is redrilling Rubel No. 17 for Standard in the Inglewood field.

George McCarthy and Jerry O'Brien, Shamrock officials, jointly with Jergins Oil Co. and Alladin Petroleum are completing a well known as Wolf No. 1, approximately seven miles from Wichita, Kan.

On formation test the well flowed at the rate of 90 barrels an hour. The combination previously completed a well in the area, which established a potential of 2955 barrels daily.

Fillmore Drilling Co. under contract with Union Oil Co. is drilling the first of 15 or 20 wells programmed for the Carlisle lease near Aberdeen, Washington. Union Oil has more than 35,000 acres leased in the area.

Camay Drilling Co. has announced the election of E. R. Love as a director of the organization. He also was named vice president and general manager. Formerly Camay general superintendent, Love earlier was a member of the drilling department of Tide Water Associated Oil Co.

The new address of K. L. Kellogg and Sons is 15814 Avalon boulevard in Compton. The telephone numbers are Menlo 4-1179 and 4-1170. The company has the contract to drill Bixby No. 3-1 for Continental Oil Co. in the Seal Beach field.

Brown Drilling Co. is preparing to drill Lagoon No. 3 for the Argus Oil Co. near M street and Ravenna avenue in the Wilmington field. W. E. Nicolai's No. 12 well on the southwest corner of Broad street and Highway 101 will be drilled by Gus Pongratz. New Brown president of the drilling organization, has returned from a vacation at Lake Tahoe.

T. P. Pike Drilling Co. has foundation for a new job for Basin Oil Co. in the Inglewood area. Pike recently finished a substantial producing well for Basin nearby.

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Design of Long Distance Natural Gas Transmission Lines

By R. G. Strong and
T. H. Beals

During the past quarter of a century there has been an extensive increase in the consumption of natural gas for fuel, which has been made possible by high pressure transcontinental pipe-line systems serving the densely populated industrial centers of the country. The discovery of vast reserves of gas, mainly in the Southwest, together with improvements in the arts of steel making, field welding and pipe fabrication, has made these lines possible. At present there is no reason to assume that development is complete. The market demand is not satisfied, and it has even been necessary for certain companies to obtain temporary orders from regulatory bodies prohibiting service to new customers. Allocation of available capacity was also widely practiced during the past winter. In view of these circumstances it is probable that the older companies will continue to expand their existing facilities and that new lines will be projected.

Before a new gas pipe-line system can be intelligently designed it is necessary to fix its origin and terminus, to have knowledge of the market requirements of the area to be served and to be assured of an adequate supply of gas. After these factors are established, a sound and economical design can be made.

In addition to determining the size of pipe to be used and the number and size of compressor stations, the engineer must also take into consideration the geography of the country between the source of supply and point of consumption, as it affects the total length of the line. The character and corrosivity of the soil should also be determined in order that the line can be adequately protected by coating and wrapping. This is particularly true today, as the thin wall pipe currently used provides little if any steel for protection against corrosion. A decision with regard to final delivery pressure is necessary, as this influences the location of the compressor station nearest to the market end of the line; and likewise the pressure of the gas in the field must be known in order that the first compressor station can be properly located.

Line Size Depends Upon Volume

Cost of capital, cost of construction, labor rates and prices for materials to be used for operation and maintenance determine the feasibility of the project and directly affect the price to be charged for the gas. Rates to be charged the consumers are also influenced by amounts to be set aside for depletion and depreciation, which are in turn determined by the probable life of the gas supply.

The general design of the line, that is, the determination of the diameter and wall thickness of the pipe to be used and the number and size of compressor stations, depends primarily upon the volume to be handled, but it is also contingent upon the size of available pipe, the physical and chemical specifications of the steel and the physical specifications of the pipe. This phase of the design will be covered more fully later, but for the present it can be said that for any volume to be handled there is one combination of line size, pressure, and compression ratio which results in the most economical system.

After the size of pipe and number of stations have been determined, decisions are necessary with regard to the type of construction to be used for the line and the kind of engines to be purchased. The older lines were mainly of coupled construction, which was later modified to include considerable welding. At present nearly all new lines are solid welded and are laid in the ditch under compression in order to minimize the effect of temperature stresses. Welding by electric arc is the method most commonly used in pipeline construction today.

River crossings must also be carefully considered. The smaller creeks can be safely crossed with a single line of the same diameter as the main line, but of slightly heavier wall thickness, whereas larger streams and major rivers require multiple crossings of smaller diameter pipe in order to adequately provide for continuity of service. Both underwater and overhead crossings have been successfully used.

Valves should be installed at the headers on all multiple river lines and at approximately 10-mile intervals on the main line. These valves are used to isolate individual river lines and sections of the main line for repair work if a leak develops

TABLE I

NOMINAL SALES CAPACITY OF 200 MMCF PER DAY
(Line Size 26-Inch O.D. x ¼-Inch Wall)

MCF Per Day Probable Sales Capacity	Cost Per MCF of Capacity	Compression Ratio	Number of Stations	Number of Engines	Maximum Operating Pressure Psig	Total Horse-Power
200,000	$261	1.50	6	34	720	42,500
203,000	266	1.25	9	41	720	51,250
196,000	266	1.75	5	36	720	45,000
203,000	266	2.00	5	40	720	50,000
NOMINAL SALES CAPACITY OF 250 MMCF PER DAY						
255,000	$251	1.50	10	66	720	82,500
247,000	257	1.25	14	64	720	80,000
248,000	259	1.75	8	68	720	85,000
258,000	260	2.00	8	75	720	93,750
NOMINAL SALES CAPACITY OF 300 MMCF PER DAY						
297,000	$267	1.50	14	105	720	131,250
299,000	272	1.75	12	113	720	141,250
300,000	283	2.00	11	122	720	152,500

Thank you, Leonard !

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or if a major failure occurs. Until recent years all valves were manually operated, but modern valve installations have been developed which will close automatically in the event the pressure declines rapidly, as is the case when a line breaks. Large volumes of gas can thus be retained which would otherwise be lost at a time when most needed.

Compressors and Dehydrators

As mentioned above, compressor stations are constructed at intervals along the line. The main units are of two general types, horizontal and vertical, both generally using natural gas for fuel. The horizontal engines were developed many years ago and have proved satisfactory in prolonged and continuous service. Their speed is slow, full load being generally rated at 125 R.P.M. The compressor cylinders are directly connected to the power end, with a resulting high efficiency. Fuel consumption for estimatiing purposes can be considered to be 10 cubic feet of 1040 B.T.U. gas per horsepower hour, although actual consumption will approach 9 cubic feet per horse-power hour with proper mixture and adjustments. Reently high speed angle type engines have been installed on some lines. At all stations an adequate supply of cooling water must be provided, and electric generators and other auxiliary equipment are needed.

The gas presently transported from the fields of the Southwest is called stripped gas. In other words, the higher hydrocarbons have been removed before the gas is transported in order that gasoline condensate will not collect in the lines and reduce their capacity. If liquid water is also present, real trouble will result from the formation of gas hydrates. These unstable chemical compounds are formed by a physical-chemical reaction between water molecules and certain gas molecules if water is present in the liquid state and may be produced at temperatures between 55° F. and 60° F. at operating pressures of 600 psig. If allowed to collect, they will completely plug the line and stop the flow of gas. Their removal can be effected by the injection of alcohol into the line and the lowering of the operating pressures, but this is obviously unsatisfactory, the best procedure being to build a dehydration plant in the field to remove the water vapor. Current practice is to operate the dehydration plant so as to maintain a dew point at line pressure of about 20° F. to 25° F. This provides a margin of safety, as gas flowing temperatures are generally in excess of 30° F.

Design of a 1000-Mile Pipeline

The previously mentioned most economical combination of pipe and power is generally determined by the "cut and try" method. Knowing the volume to be handled, the field pressure, the pressure required at the market end of the line, and the size of pipe commercially available, calculations can be made by using various sizes of line, compression ratios and station spacings until the best combination is found. This has been done for a hypothetical 1000-mile pipeline using 24-in., 26-in., 28-in., and 30-in., pipe and 1250 horsepower horizontal compressors to bring the results at least fairly well in line with present practice for actual projects.

Before figuring the several plans, it was necessary to decide upon a number of basic factors and upon the formulas to be used. There are three formulas needed; namely, line flow, horsepower and Barlow's formula to calculate the pipe wall thickness.

With regard to line flow, it has been our policy to use Weymouth's formula as published in the U. S. Bureau of Mines Monograph No. 6. We have applied this formula to actual system operating data and have found that actual and theorectical sales capacities agree within .29%. Weymouth's formula is also easy to use, which is a great advantage in design calculations when a large number of comparative figures are required. It should be mentioned that a number of other pipeline flow formulas have been developed since the above mentioned Monograph No. 6 was published. We have also applied several of these to system operating data, but the results have not warranted

TABLE II

COMPARATIVE COSTS PER MCF OF SALES CAPACITY

MCF Per Day Probable Capacity	Line Size	Cost Per MCF of Capacity	Compression Ratio	Number of Stations	Number of Engines	Maximum Operating Pressure Psig	Total Horse-Power
Nominal Sales Capacity 200 MMCF Per Day							
200,000	26″x¼″	$261	1.50	6	34	720	42,500
203,000	26″x¼″	266	1.25	9	41	720	51,250
196,000	26″x¼″	266	1.75	5	36	720	45,000
203,000	26″x¼″	266	2.00	5	40	720	50,000
200,000	24″x¼″	267	1.50	8	45	780	56,250
208,000	26″x9/32″	267	1.50	5	30	810	37,500
210,000	26″x5/16″	283	1.50	4	27	900	33,750
218,000	26″x⅜″	301	1.50	3	25	1080	31,250
Nominal Sales Capacity 250 MMCF Per Day							
258,000	26″x9/32″	$247	1.50	8	55	810	68,750
251,000	28″x¼″	249	1.50	8	56	669	70,000
255,000	26″x¼″	251	1.50	10	66	720	82,500
251,000	26″x5/16″	254	1.50	6	44	900	55,000
247,000	26″x¼″	257	1.25	14	64	720	80,000
248,000	26″x¼″	259	1.75	8	68	720	85,000
258,000	26″x¼″	260	2.00	8	75	720	93,750
250,000	26″x⅜″	264	1.50	4	34	1080	42,500
Nominal Sales Capacity 300 MMCF Per Day							
300,000	30″x¼″	$233	1.50	9	67	624	83,750
298,000	26″x⅜″	241	1.50	6	54	1080	67,500
300,000	26″x5/16″	245	1.50	9	72	900	90,000
307,000	28″x¼″	246	1.50	12	90	669	112,500
297,000	26″x9/32″	252	1.50	11	85	810	106,250
297,000	26″x¼″	267	1.50	14	105	720	131,250
299,000	26″x¼″	272	1.75	12	113	720	141,250
300,000	26″x¼″	283	2.00	11	122	720	152,500
Nominal Sales Capacity 350 MMCF Per Day							
347,000	26″x⅜″	$236	1.50	8	77	1080	96,250
344,000	30″x¼″	246	1.50	12	101	624	126,250
352,000	26″x5/16″	253	1.50	13	115	900	143,750
344,000	26″x9/32″	271	1.50	15	129	810	161,250

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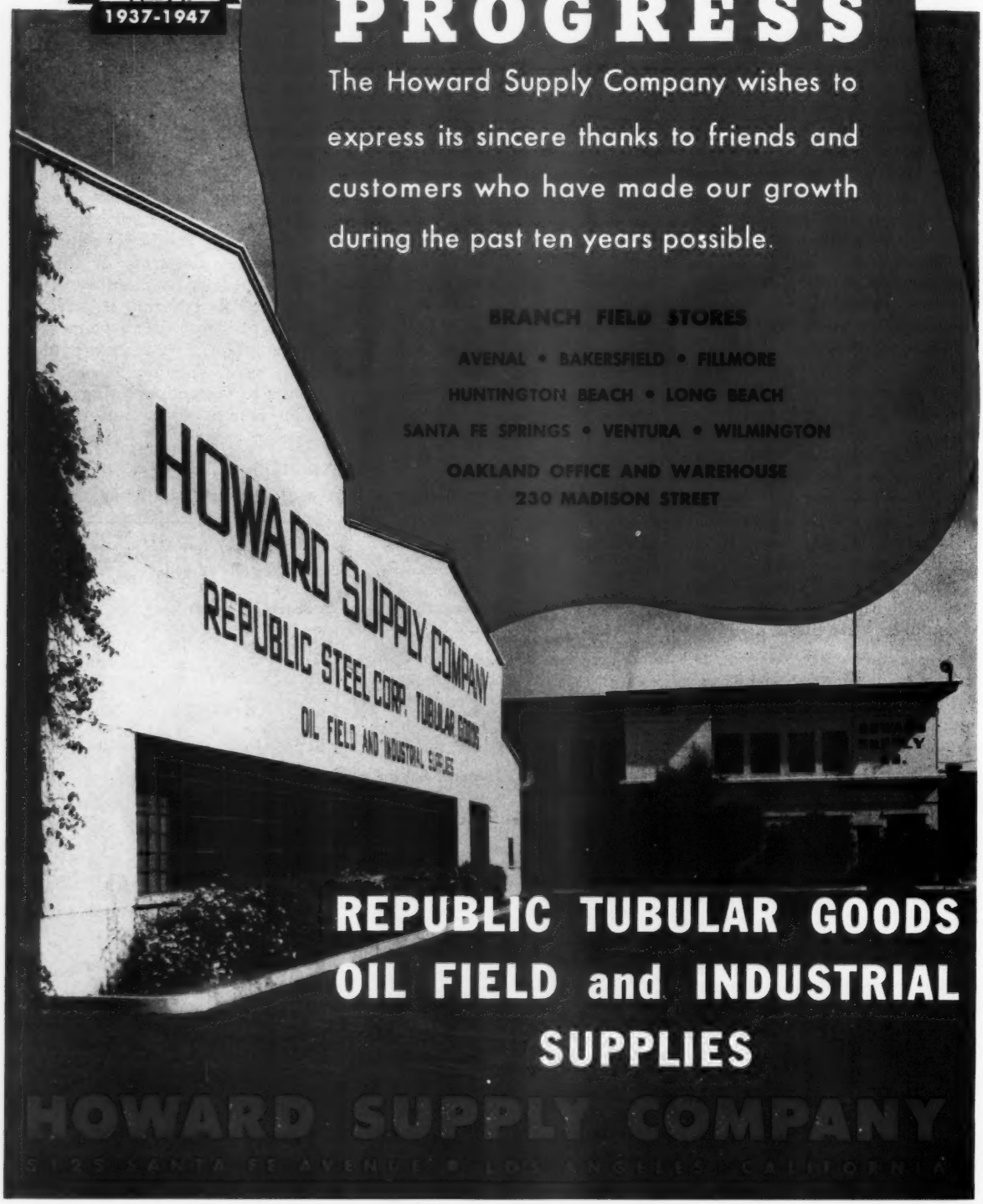

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changing our policy with regard to the use of Weymouth's formula. It has been used in the flow calculations made for the hypothetical 1000-mile line.

Horsepower calculations were facilitated by the use of a curve relating compression ratio to horsepower per million cubic feet of gas to be compressed.

Basic Factors Considered

Maximum allowable working pressure or pipe wall thickness was determined in accordance with Section 2, Division 2 of the American Standard Code for Pressure Piping. We have assumed that electric-welded or seamless pipe made from steel having a minimum specified yield strength of 52,000 psi would be used for the line. We have also assumed, in accordance with the Piping Code, a working fiber stress of 37,440 psi, which is 72% of the specified yield strength of the steel.

Other basic factors and considerations are as follows:

1. Temperature base ..... 60° F
2. Pressure base ..... 14.65 psi
3. Flowing temperature ..... 40° F
4. Barometric pressure ..... 14.4 psi
5. Specific gravity of the gas ..... .680
6. Gas lost per day on entire line ..... 2,500 MCF
7. Compressor Station fuel ..... 300 MCF per engine per day
8. Intake pressure of initial station ..... 300 psig
9. Delivery pressure to distributor ..... 350 psig
10. One spare compressor per station to and including 10-engine stations, after which two spares included.
11. Compressor station cost including cottages and all facilities ..... $290 per horsepower
12. Cost of gasoline and dehydration plants not included
13. Pipe-line construction costs per mile, including all material and labor
    a. 24-inch O.D. by ¼-inch wall $37,000
    b. 26-inch O.D. by ¼-inch wall 40,000
    c. 26-inch O.D. by 9/32-inch wall 43,800
    5/16-inch wall 47,600
    d. 26-inch O.D. by
    e. 26-inch O.D. by ⅜-inch wall 52,700
    f. 28-inch O.D. by ¼-inch wall 43,100
    g. 30-inch O.D. by ¼-inch wall 46,150

Results Compared

Calculations were first made using 26-inch O.D. by ¼-inch wall pipe and compression ratios of 1.25, 1.50, 1.75 and 2.00. Sales capacities were developed, with the number of compressor stations ranging from one to fourteen. The total investment for each combination was next determined, and finally, the investments per M.C.F. of sales capacity were calculated. These results were plotted using sales capacity as abscissa and cost per M.C.F. of capacity as ordinate. Results from the curves are shown in Table I.

It will be observed that the lowest investment cost per M.C.F. of capacity is obtained in each case with a compression ratio of 1.5. We wish to point out, however, that one or two less stations result if a compression ratio of 1.75 or 2.00 is used. An economic study, taking operating expenses into consideration, might reveal that it would be advantageous to operate at a compression ratio of 1.75 rather than 1.50, due to the lower operating and maintenance expenses resulting from the lesser number of stations.

Pipe Size Versus Capacity

Similar calculations were next made using 24" x ¼", 26" x 9/32", 26" x 5/16", 26" x ⅜", 28" x ¼" and 30" x ¼" all with a compression ratio of 1.50. The results of the calculations, including the ones previously listed, are shown in Table II.

It is interesting to observe that, based on investment cost only, 26" x ¼" pipe would probably be used for 200 MMCF capacity, 26" x 9/32" for 250 MMCF capacity, 30" x ¼" for 300 MMCF capacity, and 26" x ⅜" for 350 MMCF capacity.

In conclusion, it can be stated that the study indicates a general trend of economical design. However, it is obvious from the results of the few cases specifically mentioned in this study that it would not be possible to make a general statement as to the most economical design for every gas transmission project. Each propect would be a separate problem and would involve many combinations of facilities, pressures and compression ratios before a system of minimum cost could be determined.

Because of interest in the various factors affecting the design of long pipe lines for petroleum fluids, this paper should be of practical interest to Pacific Coast engineers. It was presented before the Spring Meeting of the Eastern District A.P.I. Division of Production, Pittsburgh, Pennsylvania,

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Hughes Campaign Creates International Interest

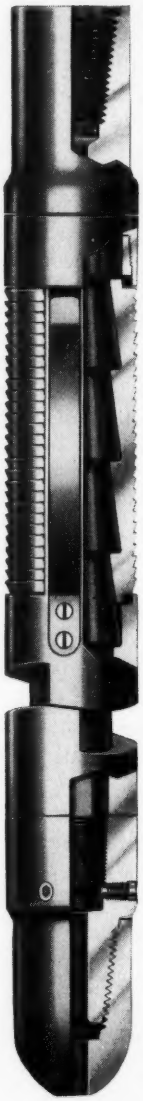
The British Museum of Natural History in a letter to the Hughes Tool Company has requested reproductions of a series of Hughes Tool Company advertisements that appeared this past year in oil magazines.

The advertisements, done in full color, depict the story of plant and animal life, their evolution, and mutation through the periods millions of years ago.

Produced by Wilhelm-Laughlin-Wilson, Advertising Agency, and painted by John Pemberton Cowan of that firm, the ten paintings have caused an unprecedented furor in oil, archaeological, and educational circles throughout the world. Nearly five thousand requests for reproductions of the illustrations have been received by the Hughes Tool Company and their agency from all parts of the world including Latin America, Netherlands, France, China, India, and the Middle East. Among the subscribers are three colleges, numerous magazines, and a host of oil field executives and companies.

Because of CAM Action...

The SHAFFER-HAMON Rotary Releasing Spear Holds Firmly – yet Releases Quickly!

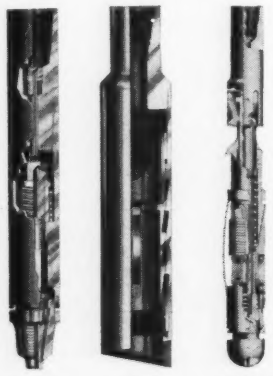


The Shaffer-Hamon Rotary Releasing Spear

No matter what the job, if it calls for a *positive* inside grip on pipe, casing or any other similar surface, you can place complete confidence in the Shaffer-Hamon Rotary Releasing Spear. It will take a firm slip-proof grip that will not fail under even heavy jarring, pulling or torque loads...*yet its simple, rugged cam action insures quick release whenever desired.*

Note in the cutaway view the foolproof design and minimum number of parts in the Shaffer-Hamon Rotary Releasing Spear. To set it, only a slight rotation of the string is required as the fish is entered, whereupon the cam expands the slips into gripping position. The slips take hold–and *keep* hold under the most severe operating conditions. Yet quick release can be obtained any time by simply setting the weight of the fishing string on the Spear and then rotating slightly. The positive cam action assures quick, foolproof slip release, *regardless of how tight a hold has been taken by the tool.*

Moreover, Shaffer-Hamon Rotary Releasing Spears may be repeatedly set and released as often as desired *without coming out of the hole*...another valuable feature that simplifies many fishing and holding jobs. There is a Shaffer Releasing Spear for every job–to grip all diameters and weights of casing, pipe or tubing...with or without pack-off attachment for establishing circulation through the fish...and for either right or left-hand operation. And Spears are only *one* of a complete line of Shaffer Fishing Tools conveniently available – 24 hours a day, every day – from your nearby Shaffer plant.



PIN TAP SOCKET CUTTER

Have You Tried These Shaffer Fishing Tools?

PIN TAPS: When there is not enough room to get over the fish and a tool joint box or coupling is up, the Shaffer Expanding Pin Tap is the tool to run. When set, the pin binds into the box or coupling so that the fish can be backed off at a joint somewhere below it. A few runs of the Expanding Pin Tap are usually sufficient to recover the fish. It can be easily released whenever desired.

SOCKETS: The safest socket you can run is the Shaffer Long Pull-Down Rotary Releasing Socket because it *automatically* compensates for worn O.D.'s and variations in pipe diameter. Its steep slip taper and extra-long slip contraction—11/16" to 7/8" depending upon socket size—eliminates risks of fishing with under-size slips.

CUTTERS: The Shaffer Inside Cutter can be used for all inside cutting jobs on drill pipe, casing, tubing and liners. Positive operation prevents creeping while the cut is made, assuring a clean, complete cut. The Shaffer Inside Cutter can be run on either drill pipe or tubing, and multiple cuts can be made on one trip without removing the Cutter from the hole.

Make your nearest Shaffer plant headquarters for all fishing tool needs. Tools are available 24 hours a day – every day of the week – on a convenient rental basis. Call – day or night.

Pages 3454 to 3506 of your 1947 Composite Catalog have detailed information on the complete line of Shaffer equipment.

Send for your copy of the new Shaffer Catalog.

SHAFFER

HIGH PRESSURE DRILLING AND CONTROL EQUIPMENT • FISHING TOOLS THAT EXCEL

SHAFFER TOOL WORKS, Brea, California • California Service Shops: Santa Fe Springs and Taft
HOUSTON, TEXAS, 6006 Navigation Blvd. • ODESSA, TEXAS, 1925 West Second Street
OKLAHOMA CITY, OKLAHOMA, Acme Oil Tool Company, 1001 S. E. 29th Street
EXPORT SALES OFFICE: Shaffer Tool Works, 30 Rockefeller Plaza, New York, N. Y., U. S. A.

Kern County OIL NEWS

NOT UNTIL AUGUST had the sun this year fully drenched the County called Kern. Usually the sun season begins early with neighbor Los Angeles waiting for summer. This year Kern waited for its Billion Dollar drenching after a record suspense. Anyway we found out that it is always true, when its hot in Los Angeles remember it's cool in Kern and vice versa.

HOWEVER, THE SUN has nothing to do with the oil except as it goes into pipelines, less heating is required during this season.

PACIFIC WESTERN at McKittrick is still the life of the party up here in Kern new discovery events. Ray Jones the district superintendent and Les Porter the geologist hold the spotlight with Belgian anticline.

SOME MORE EXCITEMENT of a milder nature continues out on Kern River north of town. The latest is the Ormac Company which is doing all right in about "sixty sand feet" on one of its tries. Not much ballyhoo, however.

TALKATIVE OILWAGS were discussing the synthetic shutdown, as regards affect on local economy. Fellow oilperts agreed that the pulsaltion into Dominguez lines from our Paloma field would scarcely budge the pressure dial either way.

ONE OF OUR TAX CONSULTANTS and valuation engineers who sojourns here around tax equalization time, objects to the column's use of "taxpert". He might settle for the quick sprout who hangs out a shingle over night, but not when someone who has spent his best years getting a degree in the work has to be thus classified. However, he agrees that in consideration of the effectiveness or results of some of his effort he might decide in our favor. This year which has been hard on **tax experts,** gives little aid or comfort even when a $45 million increase in valuation takes place. Some of this but little of it comparatively speaking was assessed from agricultural lands.

ONE DAY NOT LONG AGO we saw Monica Dancey . . . whose father was well known in production circles of Standard in a minor but important role. We found out that her name is now Tinchner and that F. L. is an assistant to a paleontologist. Monica is an assistant to a fine family of two children and is a perfect part of the community responsibility.

FOR THE BENEFIT of inquiring souls interested in Isabella Dam, Mr. Clyde J. Gorman, (no connection with Gorman-on-the-Ridge) is chief of the technical information branch, War Department Corps of U. S. Army Engineers, Wright Building, Sacramento. He knows all the answers about your duck pond up over the to-be-inundated Kernville and Isabella baliwicks. Yes, there has been a budget provision of over a million dollars and actual work may be seen this fiscal year. First it's rights-of-way, roads, diversion and what have you for engineering and so forth. No oil is anticipated being discovered, but a lot of it will be used according to "trumor".

WEDDING BELLS as we had predicted rang for H. Dwight Bovey of WoSco and he is back from his honeymoon. Out at Western Oilfields Supply there was other news this week too . . ."99" yard has expanded to Fresno.

CHARLEY LAKE of Western Oilfields Supply Company has announced the opening of his firm's new branch plant, sales yard and office at Fresno. On August 15, Doug Rappley (COW April Second Issue page 30) was appointed manager of the Fresno facility. Oil and farm needs will be taken care of in the Fresno area from that point in the future. Congratulations!

EGYPTIAN PETROLEUM ENGINEERS IN KERN COUNTY: Considerable interest has been given A. M. Higgy, right and A. M. Taha, extreme left who for the past several weeks have been observing deep well drilling operations in many Kern County oil fields. In the center is F. R. Kalloch of Johnston Body Works and President of the Kern County Chamber of Commerce. Standing are A. L. Trowbridge, engineer for the Kern County Land Company and a director of the chamber, and K. E. Peterson, drilling superintendent for Shell Oil Company.

from *Sand* well to *Oil* well in 13½ hours

by controlled

Plastic Plugging

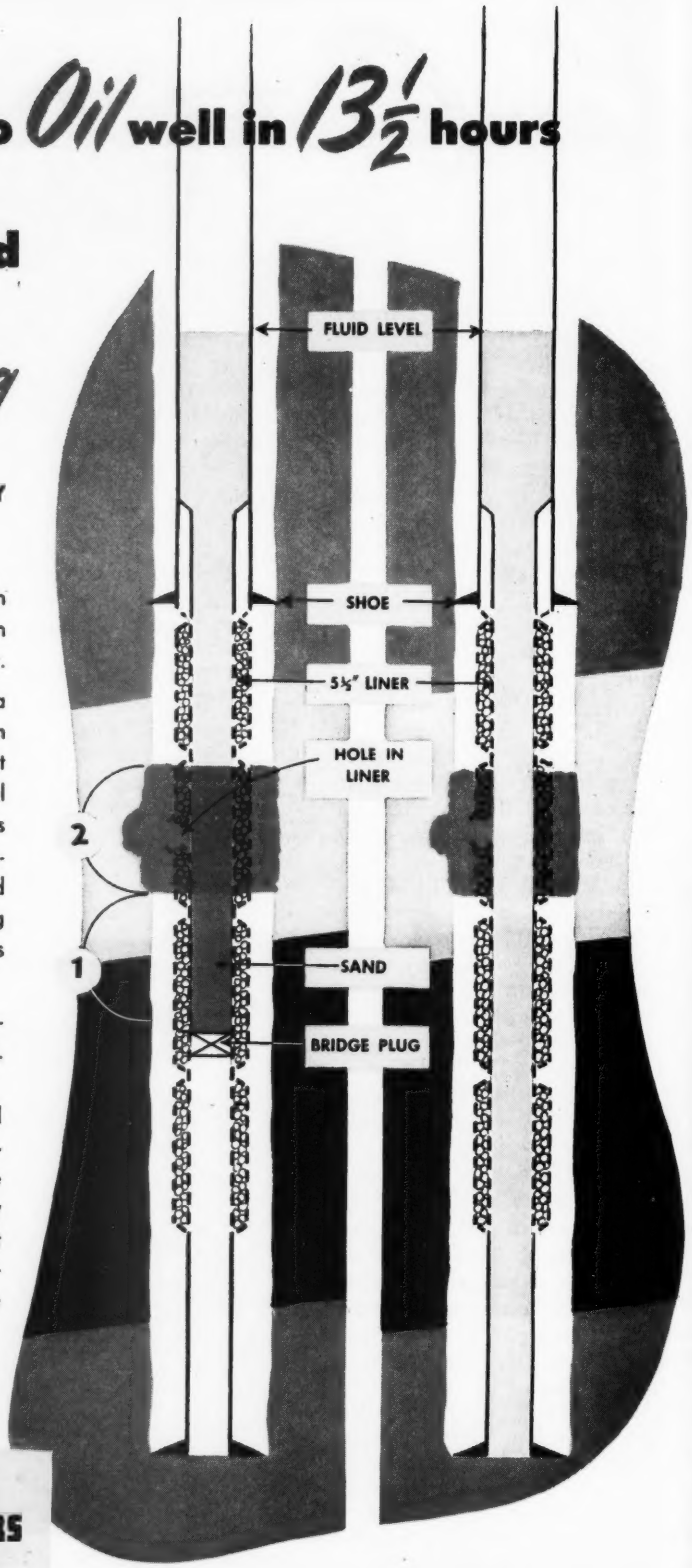
ANOTHER TYPICAL CASE HISTORY FROM ICI FILES

PROBLEM: No oil; well plugged with sand due to hole that had developed in the perforated gravel pre-packed liner.

SOLUTION: (1) Sand was placed on a bridge plug; (2) Plastic was dumped in four stages with a positive displacement dump bailer furnished by International Cementers, Inc.; penetration of plastic was controlled by use of fillers; hole was plugged thoroughly; (3) After the plastic had set, the set plastic, sand and bridge plug were cleaned out and the well was placed on production.

RESULT: Sand trouble eliminated; productivity of the well was restored to normal.

Plastic Cementing has opened a whole new field of possibilities in remedial and repair work. This technique provides a practical and economically feasible solution for many problems that arise. It has given new life and production to many wells which would otherwise have been abandoned or re-drilled.



All plastic dumped; hole in liner plugged thoroughly.

Finished job, with set plastic, sand and bridge plug drilled out.

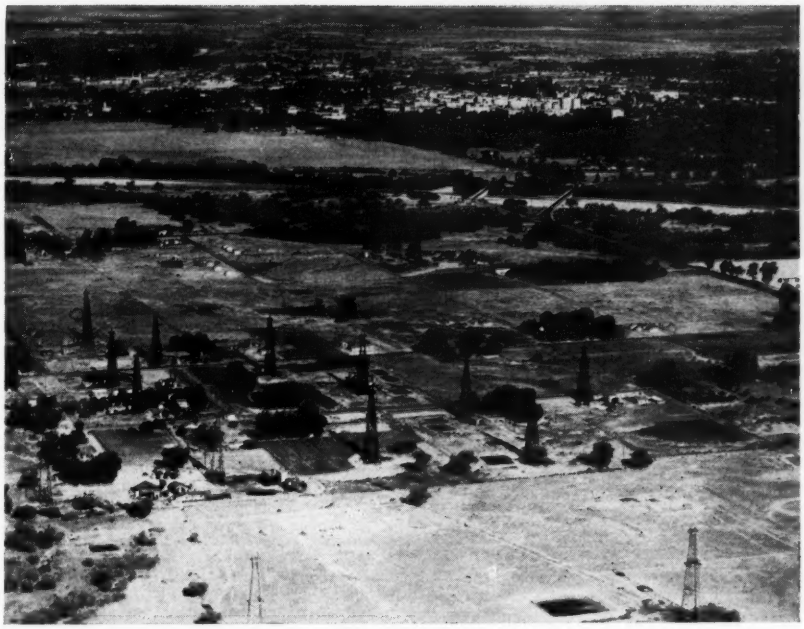
INTERNATIONAL CEMENTERS
INCORPORATED
3605 Long Beach Boulevard • Long Beach, California

HUGH Mc CAY who is doubling in brass for the firm of Dana Hogan thinks all these investigations lack a lot of public relations figures and information. He agrees that the public is without a set of true facts.

ANYBODY REMEMBER ART HAWTHORNE? . . . he is now at Vallejo. Last month he was here building a house for his son. Art used to be with California Star Oil Company and was next to the top flight with Lloyd Williamson now prexy of Mascot. Art has retired but his boy had to have his advice on building a GI house without it costing anymore than it should.

JOE BROWN WAS IN the other day . . . Union Oil's "76" . . . Joe Brown that is. He wants to do what every other good representative does . . . see sales up another 100% as soon as possible.

ABCDEFGHI stands for Alemite service, Body reconstruction, Certified public scales, Designing of truck bodies, Emergency towing, Freight deposit, GMC Trucks, Hoist



BAKERSFIELD STILL AN OIL CITY: Many persons reading up on recent agricultural trends in Kern may need be reminded that oil is still found near Bakersfield. This view is at Fruitvale, northwest of the city. Between the two bridges is the "Beach" and adjacent to Kern's Koney Island begins Pierce Road and Drilling Contractors Boulevard running directly north from the bridge on the right looking east. In the distance is the well known skyline of the fastest growing metropolis in the San Joaquin Valley. Edison Basement can be seen at top of the picture.

STELLITING
IS A SPECIALTY AT
JOHNSON
VALVE SHOP

Expert workmanship and complete modern equipment for stelliting plug. valves.

Years of experience in the repair and sale of all types of oil well and refinery valves make it possible for Johnson to say . . .

"ALL WORK GUARANTEED"

Johnson VALVE SHOP
BAKERSFIELD PHONE 2-5266

A Complete
TRUCKING SERVICE
for the
OIL INDUSTRY

Local and long distance hauling of petroleum products, drilling equipment, heavy machinery.
For the solution to any oilfield trucking problem . . .

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OILFIELDS TRUCKING CO. BAKERSFIELD · TAFT · TOWNSEND

UNION PACIFIC

TREASURE MAP OF INDUSTRY

Washington *

TREMENDOUS WATER POWER
LOW ELECTRIC RATES
LEADER IN LUMBER
BASIC METALS AND ORES
LARGE AGRICULTURAL YIELD
SOURCE OF SEA FOOD
GATEWAY TO THE ORIENT
EXCELLENT TRANSPORTATION
FAST GROWING POPULATION
SCENIC WONDERLAND

* *One of a series of advertisements based on industrial opportunities in the states served by the Union Pacific Railroad.*

WATER POWER is one of Washington's most important industrial advantages. Two of the world's greatest dams, Grand Coulee and Bonneville, make it possible to offer industry unusually low electric power rates.

Lumber, coal, iron, nickel, chrome, aluminum —and other basic metals—are available "on the ground floor" for industrial purposes.

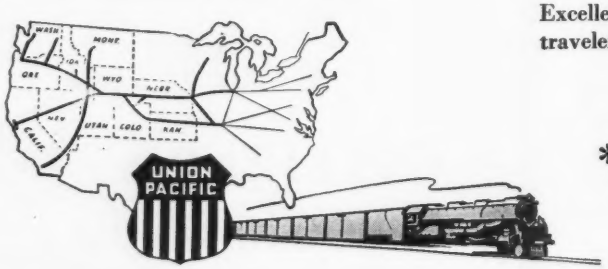
The state's tremendous yield of fruits and vegetables, together with seafood, offers an immediate supply to concerns engaged in processing and packing.

Washington's population has shown a great growth; providing a large local consumer market and source of industrial workers.

The state also is a gateway to the Orient for export business.

From a viewpoint of good living, the Evergreen State offers a year 'round scenic playground . . . excellent educational and cultural advantages.

Excellent rail transportation, for shippers and travelers, is provided by Union Pacific.



* *Address Industrial Department, Union Pacific Railroad, Omaha 2, Nebraska, for information regarding industrial sites.*

UNION PACIFIC RAILROAD

THE STRATEGIC MIDDLE ROUTE

service, Individual truck drivers dormitory . . . all out at MOTOR TRUCK AND SALES SERVICE ON "99", THE WORLD'S LARGEST AND MOST COMPLETE.

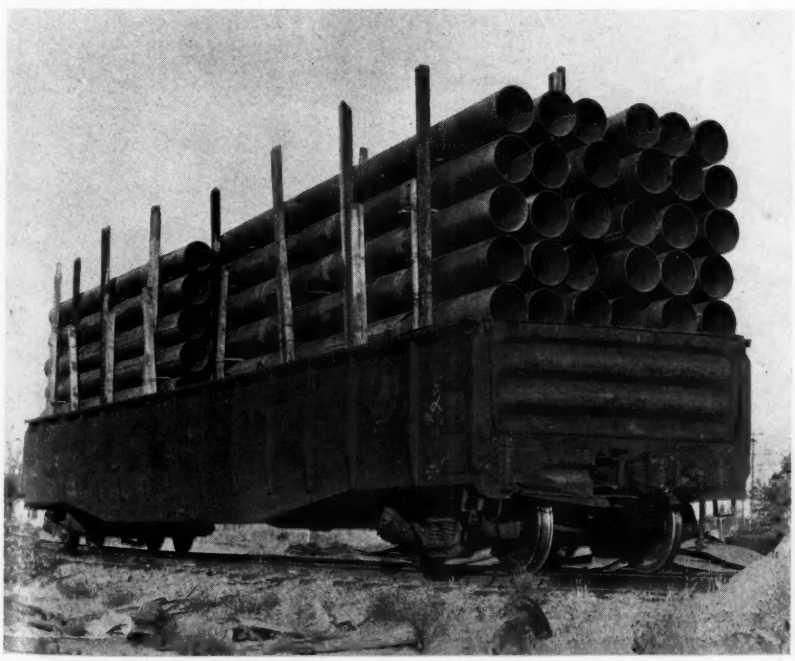
THREE MONTHS FROM NOW is the anniversary month for the Kern County Bank. H. F. (Fred) Owen is the genial president and plans are under way to celebrate the silver anniversary. In cooperation with vice president and general manager Harry C. Crossan some kind of program is being made up. The new statement of condition for the end of the fiscal period is most excellent. We are grateful for Kern County Bank's important contribution to the $153 millions in bank assets for the entire county.

WE JUST CAME BACK FROM RENO, and while there remember seeing a number of oil folks from Taft and other Kern County environs. "The Biggest Little City" stands out in bold relief across the street, and the same thing was adopted by Taft. Reno is quite a gamble . . . Taft used to be especially in oil . . . but while the gamble is taken out of oil (more or less) nothing has been done to take the gamble out of Reno.

HOIL HIGHTS is located in La Cresta, Skyline and points nearby, according to our operator who is circulating a petition to get the area organized into a Sanitation District. Nothing is ever mentioned about going into Bakersfield or Mt. Vernon areas . . . that is not important now. However, there are enough petroleum engineers with enough brains to know that present domestic waste disposal facilities are not adequate and necessary to good community building or orderly urban development. More oilwigs than we ever thought of live in North East Greater Bakersfield.

WILLIAM EUGENE POWELL of Barnsdall left for a vacation, but before taking off he spent six hours, (on a half hour's notice) to sign up 21 neighbors whom he thought ought to help establish said, "Alta Sanitation District." So we are reminded again that oilmen are interested in what is on the surface as well as what is not so visible.

WHEN WE WERE OVER AT JOHNSON'S VALVE SHOP the other day we saw a new kind of gadget that sprays as it welds and welds as it sprays. It fills up the hollow surfaces and does a nice bearing effect job upon smooth surfaces. Owen has the agency for it



PIPE OFF TO CANADA: Drilling activity in Alberta, Canada usually has slight interest in Kern, but when this carload of conductor pipe left WoSco's yard it made news and a lot of interest. This pipe was manufactured in Western Oilfields Supply Company's yard on "99" Highway. Water well casing is also being shipped to several western and southwestern states according to Charles P. Lake, general manager and owner.

McDonald
HOSE MASK

Especially designed for oil workers who must enter confined areas where there is likely to be a deficiency of oxygen or a high concentration of gas. All-vision facepiece, safety belt harness, centrifugal blower and oil proof air hose packed in substantial trunk.

McDonald ALL-SERVICE GAS MASK Where sufficient oxygen appears to support life, protects against all poisonous gases including carbon monoxide.

McDonald TANK GAUGER'S GAS MASK For use by tank gaugers, pipe line inspectors, pump house men and others who work in *unconfined places* as protection against hydrogen sulphide gas.

U. S. BUREAU OF MINES APPROVED
Write for Bulletin

B. F. McDONALD CO.
Manufacturers & Distributors of Industrial Safety Equipment

5100-P SOUTH HOOVER STREET
LOS ANGELES 37, CALIFORNIA
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MORE HOLE PER BIT with

REED ROCK BITS

Unitized Construction for greater strength

Accurately balanced Bearing Support

Twisting-Tearing Action for faster drilling

Reedite-Faced Cutters for wear resistance

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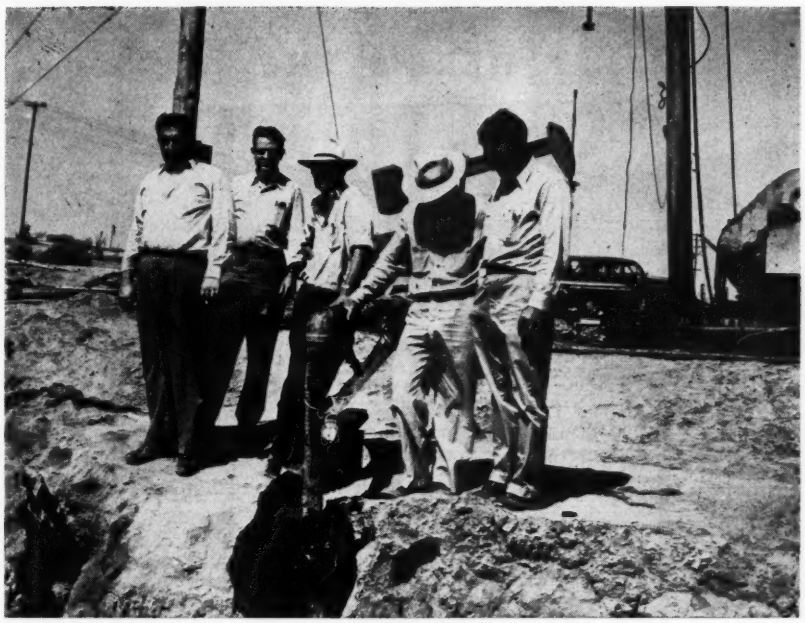
ARGENTINA: Santiago Del Estero 286, Buenos Aires, Argentina

Gulf Coast, Mid-Continent and Rocky Mountain Distributor for Martin-Decker Products

and it is a type of service for the shop that has been added since the last time we were writing about Owen and his wonderful organization.

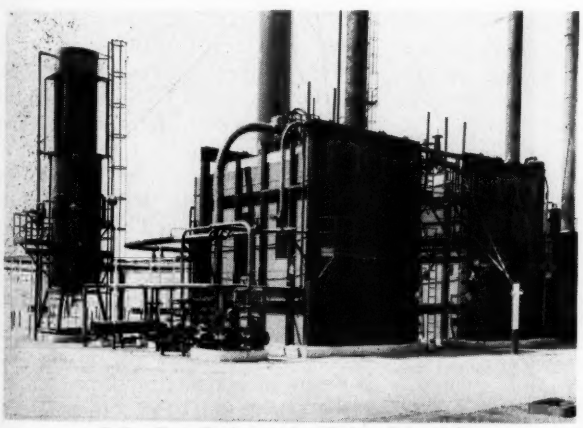
HARRY PHOENIX was awarded another highway construction job according to the Department of Public Works. The Oilfields Trucking Company had the sharpest pencil. When the Tehachapi (US 466) Keene section and bridges are finished Harry's pencil will be even sharper on some long hauls.

OLD "99" NEAR THE BRIDGE hard by Oilfields Construction Company is beginning to take on form of improvement according to Charley Manley head man of Tiny's Chicken Ranch. Some of Charley's friends are asking about the other end of the bridge as regards the highway taking off toward the airport after a grade separation has been made. Charley is looking forward to see how the Highway Department is going to go under Garces Circle, but more interesting is what the department is going to do with the statute . . . Incidentally, Charley reports better and more oilfield equipment construction.



NEW PIONEERING ON KERN RIVER FRONT: Some excitement continues on the old Kern River Front where several new strikes have been located and held up pretty well. L. L. White (center) and Associates have a sixty b/d producer here. Martin Orloff, operator (left), Fred Finch, National Supply are daily observers. New wells are being punched every day . . . in the vicinity of this well.

BEST INVENTORY OF WHO'S WHO IN OIL is a quick look see out on Stockdale's fair fairways most any early morning or late afternoon. Tuesday and Thursday evenings are good also. Recent-



Boiler Plant Equipment installed at Bakersfield

BOILER PLANT and
Compressor Plant Construction
Completely automatic Oil Heating Plants
Johns Manville Insulation
Brick Work ★ Concrete Work
C. E. MANLEY, Manager

OIL FIELD CONSTRUCTION CO.
of BAKERSFIELD
Highway 99 West of Circle Phone 3-0750

SEVERNS'
FOR 30 YEARS—A NAME THAT HAS MEANT THE SAME
DRILLING CO.

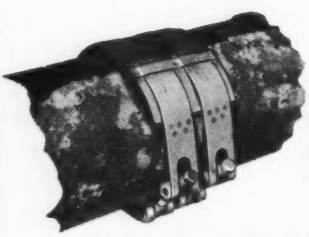
HERE'S THE

SOLUTION to PIPE LEAKS

New Marman Pipe Leak Clamps give you these features:

- √ Stainless steel for high strength, corrosion resistance, permanent repairs.
- √ Hycar pad resistant to deterioration by hot or cold water, gas, oil, etc.
- √ Can be used and re-used — outlast pipe.
- √ Easily and quickly installed by one person.
- √ Form naturally to pipe contour.
- √ Patch plate can be positioned for most advantageous installation.

HIGH PRESSURE TYPES

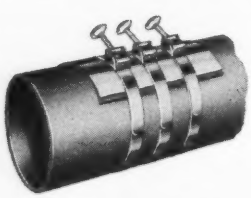


1100 P.S.I. Maximum

3 types for all pipe from 2 to 8 inches.

Largest size weighs only 6 pounds.

LOW PRESSURE TYPE

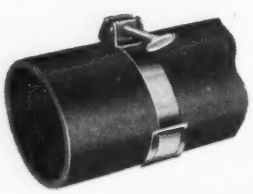


6 sizes fit all pipe from 1/2" to 12".

Adjustable to different pipe sizes.

Can be cut down to provide desired size or shape.

PATCHMASTER (all purpose)



800-1100 P.S.I. Maximum

4 sizes fit all pipe from 1/2" to 4".

Especially adaptable to pin-hole leaks.

For information write:

MARMAN PRODUCTS CO. INC.

940 W. REDONDO BOULEVARD
INGLEWOOD, CALIFORNIA

ly the main events of the year for the season were held and really what nice parties for nice folks. Number of cardigan jackets for oilwigs are increasing at barbecue sports events.

KERN COUNTY FAIR September 23-28 will feature livestock exhibits by a number of Kern oilmen. The horse show particularly will have many a winner belonging to a Kern oil producer or he might be an engineer or an oil worker. It doesn't matter up here. The show is September 25, 26, 27 and a couple days of quarter horse racing is scheduled.

OF ALL THE PUBLIC SERVICE NEEDS for the oil industry that is most acute, the feeder air service seems to be the first out in front. Civil Aeronautics Board will hold hearings in San Francisco, September 8, on feeder service franchise applications. Testifying as intervening witnesses will be several oil operators, geologists and petroleum engineers who use the service most in this area. Laurel Sanders has been named to represent Kern County.

FORTNIGHT AGO we met Margaret McDonald of the office of County Superintendent of Public Instruction. Jesse D. Stockton from the old Stockton family of Kern (Brother Frank R. is a geologist) is the County Superintendent. Miss McDonald told us that her father James J. once owned the founding well on Signal Hill . . . he had the discovery well and was a little afraid of it and transferred ownership a little too quickly. Margaret is a real sort of an American girl oilwig and is proud of her pioneership.

FRED MORRIS of San Francisco is in Kern looking after royalty interests. Another pioneer with Barnsdall interests. Fred is really one of those affectionate lovable sort of fellows with enough oil in his makeup to make him a real petroleum human. He always stops at the El Tejon. We don't know of a single oil operator, agent or ruffneck in oil that does not know Fred Morris.

ELK HILLS ENDEAVORS consisting of improving existing wells at the present time, are according to some Navywigs on the premi-

ses and associate fellow oil travellers "producing ahead" . . . some improvement is slow other recuperation is rapid. The Navy still needs oil so they say.

GEORGE HENDERSON, Irrigation Engineer and consultant for Kern County Land Company, informed us the other day that a series of what might be termed interim studies are being held with Senator Downey in regard to the 160 acre limitation law that is threatening the economy of California particularly Kern County. Downey will be in Kern on September 27, meanwhile the State Chamber and California Water Authority are holding research hearings of their own to determine the facts and which facts are applicable to present demands or needs.

SUPERVISOR BARNEY BARNES has announced that La Cresta and so forth sanitation district will be known as Panorama Sanitation District.

GREATER BAKERSFIELD advocates rightfully wanted to make the city a better place in which to live, but the campaign to issue bonds for growing pains did not reach the ¾'s majority. The people had already doubled their taxes by voting school bonds a month ago, and Paul J. Howard's story about taxes and Assessor Josh Hanks news release about the old deminishing returns in oil and the new approximately $400 million in assessed valuation, scared the living daylights (if any) out of too many good voters. About 60 thousand people outside the city limits enjoy the efforts of a little over 30 thousand in the city. What is the answer anyway?

TIDE WATER ASSOCIATED OIL COMPANY which is planning fifty new wells in the Old Kern River field, indicates that recent activity there as previously related seems substantial. George Suman, district superintendent reports that L. A. Braden is their district petroleum engineer, and that L. A. DeFord is drilling foreman who recently chalked up a drilling record on a thousand foot hole. Eight wells of a series were drilled and the last one was punched down in 48 hours.

SOME OF THE FACTS about Kern County and Bakersfield elections on bonds in the past have been related in this column. Kern has had no bonded indebtedness for many years and previously had but a small one on a road out near Arvin. "BG & O" (before grapes and oil) The opponents in Bakersfield again urged "pay-as-you-go-policy" but were at the same time surprised when the tax on amusements passed with a protective majority against recount threats as the first returns seesawed. The election was definitely a protest election and is significant of something for 1947-48.

FIFTY YEARS AGO C. Brower was appointed county expert at $5.00 per day according to an old-timer. Ten years ago the expert made $17.00 per day and today it must be at least $20.00. Which reminds us that VANCE VENABLES the presently employed expert and personnel director is leaving to go with the Kern Medical Society. He will serve in an account-ign capacity and probably act as public relations counsel according to rumor.

PUBLIC RELATIONS is quite a business these days. While everyone is supposed to do his own public relations, every firm and every member of the firm doing a good job and getting credit for it, this is not enough. In today's complexities of commerce, competition advertising and what have you, including the chamber of commerce, it is necessary to have a chamber of commerce within your own organization to help augment public relations and promulgate PUBLIC INFORMATION. Most everyone finds it impossible to read a financial statement or have any idea how the company makes a dollar and what makes profit tick.

ROSS MC COLLUM genial, kind and friendly who handles a piece of oil pipe as skillfully as his violin which he plays, for both a hobby and amusement, is a director of the new ORMAC Oil Company. At present he is also president of the National Oil Company. Attorney Henry Mack, Frank Goldman, and Martin Orloff are other members of the Company. The firm has leased 70 acres from the Shell Oil Company in the area just outside of Greater Bakersfield and north of Oildale and the substation.

Johnston Stainless Welding Rods

PROVEN QUALITY SINCE 1931

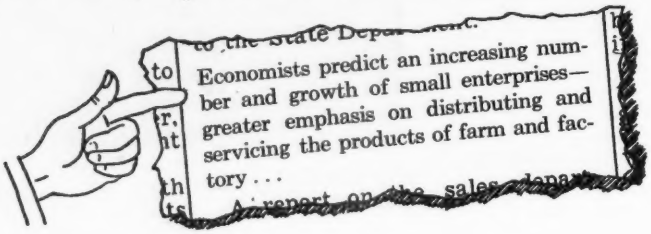
•

A. P. JOHNSTON

1845 E. 57th St. - Los Angeles 11, Calif.

Mother of Presidents

how Shell fosters small business


Economists predict an increasing number and growth of small enterprises—greater emphasis on distributing and servicing the products of farm and factory . . .

High man on the totem:

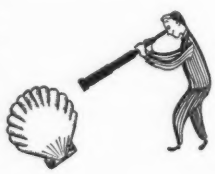
You know that America is no longer primarily an agricultural nation. But it may surprise you to learn that manufacturing has never, in peacetime, employed as many as 25% of our people. "Top man"—numerically—is distribution and service . . .

On a silver platter:

The public asks for and *gets* service. And because Americans like convenience—the personal touch, too—most selling and servicing is done by the Small Businessman. No wonder America looks to his well-being.

Take a look at "Shell":

Deliberately, it's quoted, to represent a broader aspect of the name. Only 26% of those associated with "Shell" are directly employed by the Company. The balance—a healthy 74%—are Small Businessmen . . . operating with Shell assistance in many forms, but essentially on their own . . .



How to be President:

Shell makes it easy—encourages individuals to set up for themselves under the red-and-yellow trade mark. They may call themselves Presidents, or not—but they head over 25,000 individual enterprises . . .

He cuts his own pattern:

With Shell, the Small Businessman has plenty of room for initiative. He can choose a field—be a service station dealer . . . or a petroleum distributor serving entire communities . . . or a fuel oil jobber serving home and industry . . . or he may be in marine transport, trucking, contracting or engineering.

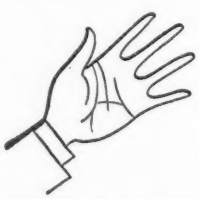
Good Neighbor Policy:

These good citizens are leading factors in every local economy. They share community activities . . . support welfare organizations . . . pay taxes . . . and employ neighbors to help operate their businesses. They, and others like them, are what makes a town a "Home Town."

Just watch him grow:

To the Small Businessman associated with "Shell" all possible training and aid is offered . . . help toward becoming a community leader. And the Shell products he merchandises—through leadership in research and manufacture—give him a competitive edge.

His future—facts predict it:



New housing, growing towns, mean more sales of oil for heating . . . and new homes bring more cars. The dammed-up urge to travel means business. All of which offer the Small Businessman his share of America's 140 billion dollars in accumulated "liquid" savings . . .

Add it up, and the figures justify predictions made by economists—that rich years are ahead in service and distribution . . .
Now, more than ever before through "Shell"—there is the making of more and more Presidents.

Shell Oil Company, Incorporated

SHELL®

Drilling Contractors Convention To Have Many Outstanding Features

California is sparing no effort to make the 1947 Convention at Long Beach on October 13, 14 and 15 the outstanding event in the history of the American Association of Drilling Contractors. Many interesting and unusual events have been planned. Elaborate preparations are being made for the barbecue, the Lakewood Country Club is being reserved exclusively for the Drilling Contractors on the evening of October 14th, the lawns are being torn up to make space for the barbecue pits and prime ribs of beef with the bones removed and pork spare ribs will be prepared on skewers. The piece de resistance will be one pound boneless squabs. There will be one waiter for each ten guests. Top flight entertainment will be provided for all. Outstanding entertainment which will particularly appeal to the men is promised for the stag event. Mr. Fowler of Fowler Brothers Drilling Company, Long Beach, is in charge of transportation for this event. The biggest event of the convention will be the social hour and banquet on Wednesday evening, October 15th, at the Municipal Auditorium. Both the men and the ladies will attend.

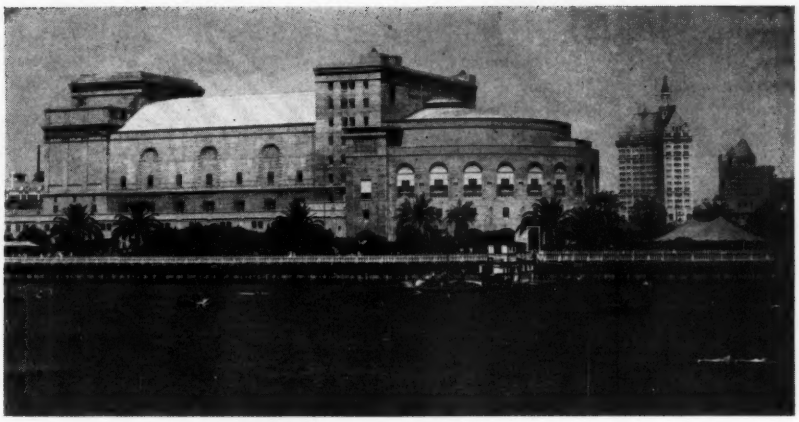
Equipment of special interest to the Drilling Contractors will be exhibited in the Convention Hall. A full schedule of technical papers will be presented.

Numerous sightseeing and entertainment features have been provided for the ladies such as a brunch, a style show, visit to the Hollywood movie studios, a motor trip along the Pacific Coast to the historic Mission at San Juan Capistrano. A boat trip has been arranged for both men and the ladies of the Long Beach Harbor.

Wheeler Ridge Wildcat Going

In the Wheeler Ridge area, Richfield Oil Corp. is redrilling below 3400 ft. with Wheeler Ridge-KCL No. C-1 in Sec. 20-11n-20w. Original depth is 6344 ft., with plug at 3330 ft.

V. P. Baker, president of Independent Exploration, recently announced that the company plans to resume operations this fall on its large leasehold near the Wheeler Ridge field.



The Convention Headquarters

Ten Section Project Deep

Shell Oil Co. continues to drill on down at 13,991 ft. with KCL-A No. 53-30 in Sec. 30-30s-26e in the Ten Section area.

Oxnard Test Getting Ready

On a 250-acre lease in Sec. 28-2.1-21w, approximately a mile and one-half north of Oxnard, Signal Petroleum Co. of Calif. is ready to start work on Schumate No. 1.

National Issues New Bulletin

The National Supply Company has just issued a new 20-page bulletin describing the Ideal Consolidated Rig Type 125 designed for fast and economical drilling of oil wells to depths of 15,000 feet. The Bulletin, No. 345, has seventeen photographs showing the rig and its features. Included also are a detailed description of features of the rig, complete operating, lubrication and draw works specifications, a shaft speed diagram and two dimensional drawings showing the use of both the three-engine power group and the four-engine power group. The Ideal Type 125 Consolidated rig has six hoisting speeds in addition to two independent empty block speeds, six rotary table speeds and two reverse speeds. The bulletin may be obtained from The National Supply Company, Box 899A, Toledo 1, Ohio.

Sales Personnel Changes Announced by Bethlehem

J. R. B. Freeman, formerly Refinery Sales Representative in Los Angeles for Bethlehem Supply Company of California, has been appointed District Manager of the San Francisco area, it was announced recently by Wendell M. Jones, Vice President and General Manager of the company. W. H. Weitzel will continue as Manager of the San Francisco store.

The new position has been created to improve Bethlehem Supply service in the Bay Area.

In Los Angeles, R. B. Trimble will take over J. R. B. Freeman's activities under the direction of H. E. Chapman in Refinery Sales; R. A. Casson, in addition to his duties in the sale of pumping units, will take over R. B. Trimble's work in the sale of sucker rods and wire rope.

Los Angeles Wells Drill

Richfield Oil Corp. is drilling at 7498 ft. with Vail No. 3 in Sec. 16-2s-12w in the East Los Angeles area. North Side No. 1 in Sec. 7-2s-12w is making hole at 6650 ft. L. A. River Comm. No. 1 in Sec. 34-1s-13w is a rig.

East Coyote Adds Producer

In the East Coyote area, Tide Water Associated has completed Hualde No. 1 at 5225 ft. for 118 barrels daily, cutting 20 per cent. Drill site is in section 23-3s-10w.

Personalities IN THE NEWS

Weinrich Joins Houdry

Whitney Weinrich, long experienced in petroleum research and development, and prominent in affairs of the American Chemical Society, has joined the staff of the Houdry Laboratories as head of pilot plant development, C. G. Kirkbride, Director of the Houdry Laboratories, has announced.

Mr. Weinrich who served as secretary of American Chemical Society's Division of Industrial and Engineering Chemistry from 1939 to 1943, joins Houdry Process Corporation after serving as a member of the staff of the Towne Scientific School, University of Pennsylvania, where he taught chemical engineering for the past year.

The new Houdry staff member was born in Honolulu, T.H. He is 41 years of age and received his education at the Massachusetts Institute of Technology. Mr. Weinrich followed this with post-graduate work, receiving his M.S. degree from M.I.T.'s School of Chemical Engineering Practice.

Upon graduation he returned to Hawaii for a year's experience in the sugar industry. However, his interest in petroleum research brought him, in 1933, to the Gulf Oil Corporation's Philadelphia refinery as a petroleum technologist. A year and a half later he became a Gulf Research Industrial Fellow at the Mellon Institute for a year of specialized work. In 1935, he returned to the Gulf Research and Development Company at its laboratories in suburban Pittsburgh, Pa. When the chemical engineering group was organized at Gulf Research, Mr. Weinrich headed that division, serving as assistant staff chemist for eight years.

During the war, Mr. Weinrich became an important cog in PAW's government-industry war effort, particularly in the toluene and aromatics programs handled by the Refining Division of PAW, at Washington.

Whitney Weinrich

Upon leaving Washington, he joined Phillips Petroleum Co. as manager of the Company's Bartlesville Pilot Plant Section of the Chemical Engineering Department whence, in 1946, he joined the U. of P. Staff.

Last year, the Division of Industrial and Engineering Chemistry of ACS sponsored a new project, known as the Researchlight, wherein industry and university research workers are invited to submit research and development problems to the Division for consideration by other interested research groups. Mr. Weinrich was appointed to organize and head the committee responsible for the ACS division's part in the undertaking.

Arthur C. Stewart, vice president of Union Oil Co. has been named head of the corporation committee for 1947 Community Chest drive by Edward R. Valentine, general campaign chairman.

Marvin Sader, long identified with oil accounting at Los Angeles, has opened his own office in Compton, where he is serving members of the petroleum industry and other lines of business.

Many Southern Californians were saddened by the passing of James E. Baker, 74-year-old grandson of the founder of Bakersfield, Colonel Tom Baker. The grandson of the noted pioneer died in a Bakersfield Hospital from injuries received in a fall while on a prospecting tour in the Sierra Nevada mountains.

Shell Oil Co. has announced the appointment of J. G. Jordan as vice president of marketing. He succeeds L. G. McLaren, who is retiring. L. E. David, Shell's general marketing manager also will retire on August 31.

Barbara Tuthill, daughter of Henry Tuthill of Shell Oil Co.'s Corona depot, was one of five finalists in the student speakers' contest held in Chino. She represented the Corona Lions Club.

The theoretical aspects of "Thermodynamics of Reservoir Fluids" were discussed by R. E. Olds of the California Institute of Technology at the meeting of the Pacific petroleum chapter of the AIME at the Ethyl Building, Los Angeles. C. R. Dodson of Standard of California presented the practical applications.

"What the Better Business Bureau Is and Does" was the topic of an address by R. W. Sample of the Los Angeles Better Business Bureau at the meeting of the Petroleum Accountants Society at the Biltmore Hotel, Los Angeles. David I. Meriney, Shell Oil Co., was meeting chairman.

George R. Wells, 32-year-old petroleum engineer has joined the Long Beach Harbor Commission. A specialist in natural gases, he came to the beach city from Pittsburgh. He will be in charge of regulation, control and disposal of natural gas from harbor department wells.

Prince Saif al Islam Abdulla of Yemen, a Southern Arabian nation of 6,000,000, has arrived in Los Angeles in a special oil company plane to study western oil production methods, after visiting Washington, D.C., and Oklahoma City. He has been in this country since the middle of July.

William Ross Cabeen and Harold Sullwald, consulting geologists, have moved to 10940 Ventura boulevard in North Hollywood. The new telephone number is Sunset 15389.

Craig C. Horton, 63, retired secretary-treasurer of the Bellview Oil Syndicate died at his home at 3130 Glencrest drive, Glendale. Long identified with oil development, Horton was a resident of California for 46 years.

One of Southern California's quarter horse enthusiasts is Frank Vessels, Long Beach oil producer and supply man. His new ranch at Los Alamitos includes a half-mile oval track with a quarter-mile straightaway, where quarter horse racing is a regular event. Vessels was the owner of Clabber-Aqua No. 507, former world's champion quarter racing stallion, which died some months ago.

Henry S. Robbins, assistant engineer at Shell Oil's absorption plant at Dominguez, has retired, after 25 years of service with the company. His association with Shell people dates back even longer than a quarter of a century, as before joining Shell at Long Beach in 1922 he lived in Coalinga many years while working in other lines of business.

Fred Harper, Hancock Oil Co. sales department at Los Angeles, recently became the proud father of Michael Davison Harper. On arrival, young Mike weighed in at 8 pounds.

Dr. Warden Heads National Supply Training Program

The National Supply Company is inaugurating a personnel training program for all its manufacturing plants, sales and engineering departments, and company stores—first company-wide training plan in National Supply history—with a noted educator in charge.

A. E. Walker, president of National Supply, has announced appointment of Dr. B. E. Warden, former dean of students and director of student personnel at Carnegie Institue of Technology, as the Company's first educational director, with headquarters in Pittsburgh.

Dr. B. E. Warden

The Company training program will be extended not only to supervisory personnel in manufacturing divisions but also to employees working upward to positions of responsibility in sales, engineering and manufacturing departments, and to personnel of National Supply's one hundred stores in the oil fields and other areas.

Dr. Warden is nationally known in university administrative and teaching circles. A graduate of the University of Iowa in 1926, he received his J. D. (law) degree there the following year, served as an instructor at the University of Kansas from 1927 to 1929, then joined the Carnegie Institute faculty as assistant professor of economics.

In 1938 he was named adviser to men, the following year dean of men, and in 1940 organized the Division of Student Personnel and Welfare—which includes all non-teaching activities, from administration of the budget to student health.

The Navy awarded Dr. Warden a letter of commendation for his services in 1944 and 1945, when he organized and administered the training of thousands of recruits—and supervised the training and work of hundreds of instructors—at San Diego.

He is a member of the National Association of Deans and Advisers to Men, the Association of School and College Placement other educational groups, and various professional, honorary and social fraternities. Among his fraternities are Delta Upsilon, Delta Sigma Pi, Phi Kappa Phi, Alpha Phi Omega and Omicron Delta Kappa.

James E. Martin, attorney, has been appointed legal counsel for Douglas Oil Co. of California. He succeeds Adele Walsh, who is resuming her private practice in the Los Angeles Subway Terminal Building.

Martin is a graduate of the University of Missouri Law School and the U. S. Army School of Military Aeronautics. He was active during the war as pilot and intelligence officer.

A native of Needles, California, he formerly conducted a private law practice in Los Angeles.

Bob Barrager of Signal Oil & Gas Co.'s public relations department has returned from a two weeks vacation, which he spent cruising with the Navy offshore California. A naval lieutenant during the war, he is a member of the reserve officers corps.

Helen Willie, secretary to Haines Finnell of Union Oil Co., left August 25 for her annual vacation. She is spending it at Laguna.

G. F. Ashby, president of the Union Pacific Railroad, has announced the purchase of 10 additional Diesel oil-burning engines, costing $1,500,000.

Field Development

PREPARED FROM CALIFORNIA OIL WORLD NEWS SERVICE

Los Angeles Basin

Corona Del Mar Wildcat Starts

Morton and Sons has decided to try again for oil in the Corona Del Mar area of Orange County. With this in mind, location has been staked for Irvine No. 56-1, approximately 640 ft. north and 1360 ft. east from the center of Sec. 24-6s-10w. Drill site is about a mile north of the recently abandoned Irvine No. 55-1, which went to 9425 ft.

Long Beach Area Adding Interest

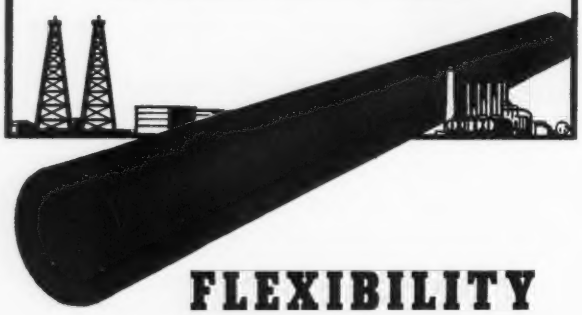
General Petroleum Corp. has staked location for I.P.C. No. 4 in Sec. 29-4s-12w, approximately 1500 ft. northwest of Shell Oil Co.'s Dolley No. 2 deep zone discovery in the Long Beach area. The new drilling job will go to the Dolley zone and attempt to duplicate Shell's production success.

Shell's official figures disclosed that Dolley No. 2 was completed flowing initially 1008 barrels of 30.6 gravity oil daily, cutting 17.5 per cent through a 16/64-in. bean. Pressures were 1850/1700 pounds. Last reported output was 519 barrels of 32.9 gravity oil a day, cutting 4.2 per cent through a 10/64-in. orifice, along with 518,000 cubic ft. of gas. Pressures were 2950/3100 pounds. Meantime, the company is skidding rig in for Alamitos No. 49.

Riverside Try Washing Perfs

After recovering all water on test of the interval of 1930-1960 ft., Palomar Petroleum Corp. is washing per-

Dependable, Low-cost Conveyance for OIL and GAS



FLEXIBILITY

is one advantage of Calco Welded Steel Pipe . . . On hills or curves, the job moves fast with Calco Welded steel pipe. It is strong, yet light and flexible — is easily and quickly installed at low cost. High flow capacity, uniform wall thickness and long lengths are some of the other advantages you will find in Calco Welded Steel Pipe.

ARMCO

ARMCO DRAINAGE & METAL PRODUCTS, INC.
CALCO DIVISION, 2614 Seventh Street, Berkeley 2, Calif.
423 LeRoy Street, Los Angeles 12, Calif.

Bowen
"Long Distance, Please!"
BOWEN'S FISHING TOOL
EXPERTS ARE NEAR YOUR RIG!

When you have a fish in the hole, remember—Bowen's quarter century of fishing tool experience is available to you 24 hours a day . . . Bowen has more tools, more rolling stock, more service men than any other fishing tool company in California.

Your nearest Bowen service store has a complete stock of these tested tools. No waiting while needed equipment is brought from a distance. *When minutes count, remember Bowen for dependability in a hurry.*

Day or Night Call BOWEN

Santa Fe Springs	Whittier 436-36
Huntington Beach	.206
Ventura	.6435
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Avenal	.256
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BOWEN FISHING TOOL COMPANY
SANTA FE SPRINGS, CALIFORNIA
VENTURA • BAKERSFIELD • AVENAL • SANTA MARIA
CASPER, WYOMING

foration in Tyrell No. 1 in Sec. 13-8s-1w in the Temecula area of Riverside County.

Lawndale Well Still Testing

Oil flow has been killed in Seaboard Oil Co.'s Johnson No. 1 discovery well in Sec. 17-3s-14w in the Lawndale area, preparatory to testing a lower interval. Total depth is 8026 ft., with 7-in. water shut off at 7650 ft. The well on completion flowed an estimated 350 barrels of 27 gravity clean oil a day through a small bean, along with an estimated 10,000,000 cubic ft. of gas. Tubing pressure was 1000 pounds and casing, 2000 pounds. Perforations open are at 700-7930 ft., 7970-7980 ft. and four holes only at 7990 ft. The company is preparing to start work on Bauer No. 44-17 in Sec. 17-5s-10w in the Westminster area of Orange County.

Val Verde Try Rigging

Texas Co. is rigging up for an interesting wildcat test in the Val Verde area of Los Angeles County. Known as Malis No. 1, it is approximately one-half mile northeast of Standard's abandoned Boobier test in the Del Valle area.

Inglewood Well Flows

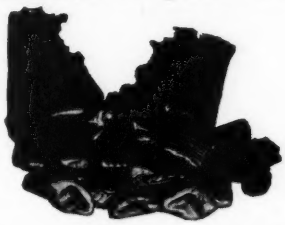
Basin Oil Co.'s new well in the Inglewood area was last reported flowing 180 barrels of 29.5 gravity oil, cutting 10 per cent, and 1,200,000 cubic feet of gas through a small bean. Total depth is 10,590 ft. The producer is know as City of Inglewood No. 1 and located in Sec. 28-2s-14w. Inglewood Comm. No. 2-1 is getting under way.

West Newport Well Testing

Amerada Petroleum Corp. is ready to test its Farnsworth No. 36-7 in Sec. 7-6s-10w in the West Newport area, after cementing 7-inch casing on bottom at 5900 ft.

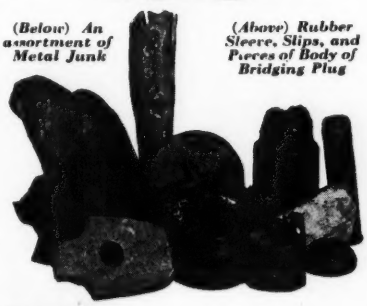
California Exploration Co. is squeezing Cagney No. 1 in Sec. 28-6s-10w, after water broke in and entry located. Total depth is 2511 ft. Plugged back depth is 1604 ft. Honolulu Oil Corp. has reached a depth of 4800 ft. with Lorch No. 1 in Sec. 6-6s-10w.

HORSING AROUND won't get this sort of junk out of your well!



(Below) An assortment of Metal Junk

(Above) Rubber Sleeve, Slips, and Pieces of Body of Bridging Plug



BUT any loose and movable junk can be recovered easily with the

CAVINS HYDRAULIC SUCTION FISHING TOOL

Phone the nearest representative for sudden service . .

THE CAVINS CO.

LONG BEACH
2853 Cherry Avenue • Phone 485-64

VENTURA
1641 No. Ventura Ave. • Phone 6767

SANTA MARIA
Phone 1210-L

BAKERSFIELD
1120 33rd Street • Phone 6-6860

TAFT
204 Center Street • Phone 1127

Republic Operators, Inc., Newland No. 2 in Sec. 12-6s-11w is ready to run liner, after cementing pipe at 2995 ft. Hole is bottomed at 3050 ft.

Alondra Well In

British American Oil Producing Co. has completed Park Community No. 1 in Sec. 22-3s-14w in the Alondra area. Finished at 9238 ft., production rate is evidently on parity with two wells, previously completed by the company in the area. H. C. Christie is testing water shut off at 8960 ft., after cementing 5½-in. inside 7-in. blank liner in Johnson No. 1. Total depth is 9351 ft., with casing set a foot off bottom.

Las Llajas Try Spudded

Tide Water Associated Oil Co. has spudded and is drilling ahead below 900 ft. with Joughin No. 1 in Sec. 25-3n-17w in the Las Llajas area of Los Angeles County.

Simi Test Drills On

Union Oil Co. is drilling at 1306 ft. with Simi No. 10 in Sec. 2-3n-18w in the Simi area, Los Angeles County.

Wilmington Well Pumps

Pumping clean oil at the rate of 166 barrels a day, the Continental Companies have completed Community No. 214 in the Wilmington field at 4480 ft. The well, beneath Continental Northern community oil lease, is the 31st drilled by the operating organization from the west bank of the flood control channel and whipped to sub-surface beds beneath the business and industrial section of Long Beach.

Fred H. Hammer, Los Angeles representative for the companies, made known that the Continental community lease includes some 2000 separate ownerships. Approximately 1500 are located west of Pine avenue and are drawing royalties at an estimated rate in excess of $250,000 annually. Leasing of the district south of 6th street between Pine and Alamitos avenues is nearing completion and the development of this area will add several hundred more local property owners to the list of royalty recipients, Hammer said.

Coastal and Northern District

Monterey County Interest Center

North American Oil Consolidated and Jergins Oil Co. have decided to try again for oil in the San Ardo area of Monterey County. They have staked location for McCool No. 1 in Sec. 35-22s-10e. This is about a quarter of a mile northeast of the recently abandoned Rosenberg No. 1 in Sec. 34, which found nothing commercial to 2500 ft.

Six miles south of Kings City in the Oasis area, Texas Co. is grading for Currell No. 2 in Sec. 4-21s-8e. Orradre No. 1 in Sec. 31-23s-11e near Los Lobos is drilling below 3000 ft.

South Mountain Project Begins

Volunteer Petroleum Corp. is starting its Junior No. 1 wildcat test in Sec. 19-3n-20w in the South Mountain area of Ventura County.

Dunnigan Hills Venture Drills

In the Dunnigan Hills in Yolo County, Texas Co.'s Dunnigan No. 1-3 in Sec. 27-11n-1w is making hole below 3200 ft. On formation test of the interval of 2477-2530 ft., open 14 minutes, blew at the rate of 7,000,000 cubic ft. of gas a day through a quarter inch bean, with 1170 pounds bottom hole pressure. Shell Oil Co.'s Heinz Unit No. 1 in Sec. 20-8n-1e in the Winters area of the county is making progress with the drill near 3400 ft.

Butte County Gas Test Goes

Standard of California's Wahl No. 1 in Sec. 32-21s-1e near Durham in Butte County is drilling steadily ahead at 2276 ft.

Orcutt Test Drills Ahead

Sunray Oil Corp. is drilling at 4416 ft. with Los Flores No. 2 in Sec. 4-8n-33w in the Orcutt area of Santa Barbara County. Sunray recently announced that it was the high bidder for the U.S. Government's 100-octane refinery near Duncan, Okla. Acquisition of this property gives the company three refining plants. Others are a 7000-barrel plant at Santa Maria, Calif., and a 14,000-barrel refinery at Allen, Okla.

Gato Ridge Try Coring

Union Oil Co. is spot coring at 2133 ft. with its Giorgio No. 1 in Sec. 12-8n-32w near the Gato Ridge field. What may have been uncovered of interest to present depth is a company secret.

Zaca Test Goes Ahead

Near Zaca Creek in Santa Barbara County, Tide Water Associated Oil Co. is exploring at 4050 ft. with Luton No. 71 in Sec. 32-8n-31w.

PUMP SUCTION HOSE

PULL a steady flow of mud through your mud pumps. Goodall's "Spartan" pump suction hose is flexible, absorbs all pump vibration — follows the level of drilling mud as it varies in slush pit saving pipe adjustments.

Strong, abrasive resisting tube, reinforced construction — smooth bore assures long service. Available in 5' 8" lengths in 6", 8", 10", and 12" diameters. Available with built-in nipple if desired.

OTHER GOODALL PRODUCTS All Types Industrial Rubber Goods plus Steam, Suction, Fuel, Discharge, Cement and Flue Cleaner Hoses.

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Sespe Forks Try Drilling

Drilling has reached a depth approximately 2600 ft. in Republic Operators, Inc., Arundell No. 1 test well in Sec. 6-4n-19w in the Sespe Forks area in Ventura County.

Montalvo Developing

Standard of California's McGrath No. 65-3 in Sec. 30-2n-22w in the Montalvo area is coring at 9303 ft. Maxwell No. 1 in Sec. 23-2n-23w is spot coring at 9997 ft. Texas Co. last was reported grading roads for J. V. No. 1 in Sec. 24-2n-23w. Del Cielo No. 1, sponsored by Richfield Oil Corp. in Sec. 30, is standing with surface pipe set on bottom at 1190 ft.

Goleta Wildcat Tests Formation

On formation test of the interval of 4742-4718 ft. in Honolulu Oil Corp.'s Honolulu-Signal No. 308-RDA-1 in the Goleta area, recovery was salt water. Original bottom is 4934 ft., with plug at 4759 ft. Honolulu - Signal - Macco - State No. 309-RDA-1 in Sec. 19-4n-28w is drilling new hole below 4150 ft.

Capitan Test Drills Down

Rothschild Oil Co.'s Orella No. 3 near Refugio in the Capitan area is drilling ahead in sand and shale at 2260 feet. Location falls in Sec. 31-5n-30w.

Ventura Avenue Well Redrilling

British-American Oil Producing Co.'s Hartman No. 15 in Sec. 21-3n-23w in the Ventura Avenue field, which went originally to 11,700 ft. is redrilling at 11,677 ft. Lloyd Corp., Ltd., L. C. No. 22 is making hole at 8975 ft. Shell Oil Co. is ready to complete Edison No. 39 from 9720 ft.

Oxnard Well Now Completing

Parisinoil Co.'s Todd No. 2 in Sec. 6-1n-21w in the Oxnard area is rigging up hot water circulating system and preparing to rig pump and boilers to complete. Depth is 3908 ft. Casing is set at 3351 ft., with perforations at 3350-3674 ft. and 3755-3906 ft.

West Mountain Project Deeper

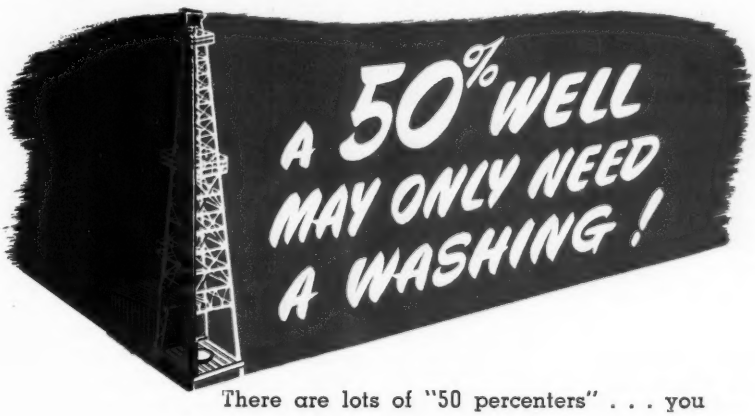
Drilling is continuing ahead at 3432 ft. in D. D. Feldman's Richardson Estate No. 5 in the West Mountain area in Sec. 23-3n-21w, Ventura County.

Rincon Redrill Job On Schedule

General Petroleum Corp. is engaged in preliminaries leading to the redrilling of Ferguson No. 17 well in Sec. 7-3n-24w in the Rincon area. Depth is 2575 ft.

Santa Barbara Prospect Area

In the Gato Ridge area of Santa Barbara County, Barnsdall-Richfield Oil Corp.'s Magenheimer No. 4 in Sec. 8-8n-32w is prospecting ahead at 4200 ft. Near Lompoc, Barnsdall-Honolulu Oil Corp.'s Salsipuedes No. 1 in Sec. 8-6n-33w has been abandoned at 1636 ft. No oil or gas showings were encountered.



There are lots of "50 percenters" . . . you know them. Fair wells, paying their way — but not as good as they should be. Their tests gave promise of much greater production; nearby wells are bringing in twice as much from the same formations. And, surprisingly enough, there's only one thing the matter with most of them.

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San Joaquin Valley

McFarland Try Starting Work

Universal Consolidated Oil Co.'s expanding field operations have reached into the McFarland area where location has been staked for Marquis No. 1 test well in Sec. 19-26s-27e, Kern County. The drill site is about three miles southeast of Shell's Guth-McCaleb Comm. No. 1, which went a few feet short of 5300 feet in granite and was abandoned last May.

Jasmine Test Scene

Pacific Oil & Gas Development Co. is ready to start another exploratory project in the Jasmine area. It will be known as Jasmine Orange Land No. 13-23 and will drill in Sec. 23-25s-27e. Quinn Ranch Oil Co., meanwhile is grading for its No. 1 well in Sec. 15.

Arvin Wildcat Still Working

Western Gulf Oil Co. is preparing to shoot for shut off with its Di Giorgio No. 2 in Sec. 10-31s-29e in the Arvin area. Total depth is 6250 ft., with casing cemented at 5846 ft. S. P. No. 1 in Sec. 25-12n-20w is drilling at 14,862 ft. Tejon Ranch No. 1 in Sec. 29-11n-18w is rigging up. South of Maricopa and Santiago, location has been staked for B. & M.U.S. No. 63-30 in Sec. 30-11s-23e in the Pioneer Anticline area.

Temblor Try Fails

Cal Oil & Gas Co. has given up its Calumet-Cal No. 1 in Sec. 30-29s-21e in the Temblor area. Total depth is 2000 ft., with plug at 1050 ft. The venture bailed water.

Edison Wildcat Drilling Ahead

Caliente Oil Co. continues to drill steadily ahead at 4060 ft. with its Cohn Estate No. 1 wildcat test in Sec. 12-30s-29e in the Edison area.

top oil sand placed at 1100 ft. Fractured shale was logged at 1325 ft.,

Tulare Try Idle

Idle at 2930 ft. is the present status of Frakes Oil Co.'s Toscan No. 1 in Sec. 25-16s-23e in the Kingsburg area of Tulare County.

San Emigdio Well Fishing

Ater redrilling to 9930 ft. Continental Oil Co. is now fishing drill pipe in KCL No. L-1 in Sec. 11-11n-22w in the San Emigdio area. No. L-2 in Sec. 8 is a rig. KCL No. M-1 in Sec. 27-11n-22w is drilling at 6718 ft.

Poso Creek Job Rigging To Pump

General Drilling Co. is rigging to pump Fitzhugh-USL No. 2 in Sec. 14-27s-27e in the Poso Creek area. The hole was carried to 1873 ft., before being plugged back to 1200 ft. Casing was cemented at 1135 ft., with

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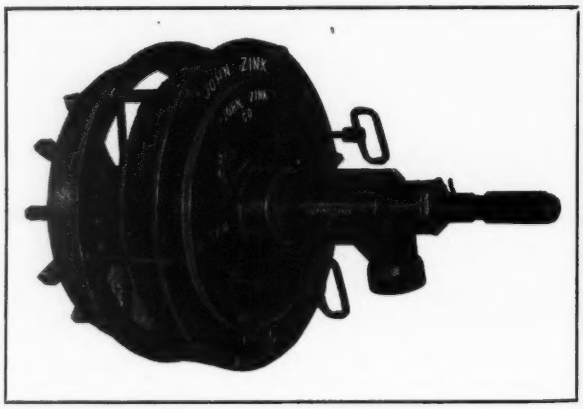

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4401 South Peoria — Tulsa 1, Oklahoma

Representative: S. G. Higginbotham, 403 W. 8th St., Los Angeles

Round Mountain at 1575 ft. and Olcese at 1867 ft.

McKittrick Active Area

Pacific Western Oil Corp.'s Midway-McKittrick No. A-84-30 in Sec. 30-30s-22e, a new discovery in the Point of Rocks formation, has been beaned back flowing 600 barrels of 35 gravity oil daily, through a 16/64-in. bean. The well flowed initially at the rate of 2000 barrels a day for a short period before placed under restrictions. Production finds its source in the interval of 4730-4785 ft. and 4800-4845 ft. The hole is bottomed at 5196 ft. with 7-in. casing shoe at 4959 ft. The Oceanic zone was absent at this location. Midway-McKittrick No. A-73-30 in the section is starting.

Texas Co. is drilling at 1728 ft. with Tulare NCT One No. 17-28 in Sec. 28-30s-22e. Westpet NCT One No. 26-29 in Sec. 29 is making progress below 900 ft. Victor Exploration Co.'s No. 1, an exploratory project in Sec. 32-29s-22e is redrilling at 5447 ft. Original depth is 5562 ft.

Fruitvale Test Spuds

Superior Oil and Independent Exploration have spudded their joint test well in the Fruitvale area, with drilling now at 600 ft. The try, known as KCL-A No. 57-13, is on Sec. 13-29s-27e.

Middle Dome Test Redrills

Standard of California at last reports was redrilling at 9540 ft. with No. 73-30V in Sec. 30-23s-19e in the Middle Dome area of Kettleman Hills. S. F. & F. L. No. 4-2 in Sec. 12-25s-19e in the South Dome area is still a location. The test will be carried to the Eocene. Ferguson No. 21-6N in Sec. 6-22s-16e in the Jacalitos area is grading. Lerdo Land Co. No. 10-6 in Sec. 7-28s-27e in the Premier area is a location.

Coalinga Well Swabs and Flows

Sharples Oil Corp.'s Hyde No. 2 in Sec. 6-19s-16e in the Northeast Coalinga area has been completed flowing an unestimated quantity of crude oil, after several runs of the swab. Total depth is 8279 ft., with perforated interval at 8240-8257 ft. Tubing is hung at 8217 ft.

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McDonald Anticline Explorer Drilling

Mar-Roo Syndicate is drilling at 2006 ft. with No. 44, a wildcat test in Sec. 33-27s-19e in the McDonald Anticline area. Surface pipe was cemented at 160 ft. Oil was first found in the area two years ago by Williams Bros. Oil Co.

Weedpatch Well Drills

In the Weedpatch area of San Joaquin Valley, General Petroleum Corp. is drilling Kernsummer No. 27-22 in Sec. 22-30s-28e below 4650 ft. Glazier No. 32-2, a wildcat in Sec. 2-30s-29e in the Race Track area is making hole ahead near 4700 ft.

Cymric Wells Find No Oil

Independent Exploration Co. has given up Cymric No. 21 in Sec. 21-29s-21e in the Cymric area as a production failure. Drilled to a bottom of 5256 ft., all salt water flowed on formation test of the interval of 5170-5256 ft. The venture was 330 ft. lower on structure than No. 11. The company is preparing to drill Cymric No. 22, on location south.

Rothschild-Bender Oil Operations has abandoned Sheep Springs No. 3 in Sec. 17-29s-21e. Bottom is in Gray Oceanic at 5265 ft.

McDonald Anticline New Wildcat Scene

Signal Oil & Gas Co. has decided to drill again for oil in the McDonald Anticline area, San Joaquin Valley. It has staked location for Carpenter No. 2 in Sec. 6-28s-19e. Some months ago the company drilled Signal-Honolulu-Carpenter No. 1 in the section to nearly 4350 ft. without encountering major showings.

Southwest of the Temblor field, Signal-Westates No. 88 in Sec. 35-29s-20e is making hole ahead below 3350 ft.

Bacon Hills Test Coring

Seaboard Oil Co. is coring for the Phacoides below 7800 ft. with its No. 24-21 in Sec. 21-28s-20e in the Bacon Hills area. Electric log and dipmeter was run at 7788 ft.

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Reduced Operations at Southern California Rubber Plant

The Los Angeles butadiene plant as operated by the Southern California Gas Company for the Office of Rubber Reserve is currently charging only about 25% of its capacity for naphtha feedstock as a result of reductions undertaken in the synthetic rubber program. This action is typical since the operating levels have been reduced in all the various plants of this area which are participating in the rubber program. The process which has been conducted at the Southern California Gas Company's plant is based upon the existence of standby gas facilities which were expanded and modified to an extent requiring approximately $12,500,000 of Government funds. In actual operation straight run naphtha has been thermally cracked at high temperature with conditions largely similar to the Ugite process. This latter process, exclusively licensed to the Pennsylvania Industrial Chemical Company, is one of the many privately developed methods which were advanced to the Government for its use in various enterprises such as the synthetic rubber program so that the greatest production could be obtained during the war emergency.

During the maximum demand period of production the plant of the Southern California Gas Company charged approximately 17,000 barrels per day of naphtha and supplied large quantities of raw materials for synthetic rubber and aviation gasoline. In the event of a cessation of these operations by the Government and if no final private industry direction is undertaken, the large volumes of chemical intermediates, which are concurrently produced, will no longer be provided for the many uses now obtained from them in the resin, solvent and chemical industries.

National Issues New Bulletin

The National Supply Company has issued a new bulletin on the Ideal Steam Slush Pump Type S-935 carrying eight photographs, a blueprint, performance chart and complete specifications. This large duplex steam slush pump has been designed for ruggedness and durability. Both the fluid and steam ends are of all-steel construction for maximum strength with minimum weight. The patented "GT" piston and rod design gives a positive seal without excessive stress. Copies of the bulletin, No. 326, can be obtained by writing The National Supply Company, Box 899 A, Toledo 1, Ohio.

Sohio Contract Awarded Catalytic Construction Co.

T. Ellwood Webster, president of Catalytic Construction Company, subsidiary of Houdry Process Corporation, has announced the procurement of maintenance contract for the case repair and catalyst-change for Standard Oil Company (Ohio), Cleveland. The unit which went on stream June, 1944, is a 20,000 B/D catalytic cracker, consisting of nine reactor cases, at Standard's Number 1, Cleveland refinery.

Ward Blodget, Ralph Arnold and John del' Eau did the geology on ground in the Hooker Dome area of Tehama County recently leased by Edward H. Clark and William D. Dickey.

The engagement of Harriet Quandt of the Orange office of Southern Counties Gas Co. to Albert Fitschen has been announced. The wedding bells will ring out on November 30.

Off on a months vacation at Ben Lomond, Calif., is George Murray, public relations chief for Tide Water Associated Oil Co. in Los Angeles.

Albert Verbeek of the mechanical department of Shell Oil Co. at the Dominguez refinery, has retired after more than 20 years accredited service with the company. He was born in Holland.

Goleta Try Ends Search

Having scrutinized all formations to 3241 ft., without encouragement, Ohio Oil Co. has abandoned Thomas B. Bishop Co. No. 1 in Sec. 7-4n-28w in the Goleta area.

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OIL LEASE

FOR SALE: Oil lease in Newhall area between Union Oil Company well and Mutual Development Corporation well, both wells now drilling. Box 9, c/o California Oil World.

9/5d

THIS LAUGH

OFF!!

The elderly preacher and his wife had as their pet a lone parrot. This parrot, evidently affected by long years at the religious residence, spent its days in constant prayer. It prayed incessantly from morning until night.

In contrast, the next-door neighbor had a parrot who was an incessant curser. This distressed the neighbor greatly to have a cursing parrot right next door to the parsonage. One day, after many discussions about how to stop the parrot's cursing, the neighbor and the parson's wife decided to place the two parrots in one cage in the hope that the praying parrot might reform the cursing parrot.

The two parrots sat on the perch for some time, looking each other over, neither uttering a sound.

Finally the cursing parrot broke the silence.

"How would you like to have some loving?"

The praying parrot replied: "What the hell do you thing I've been praying for?"

Mother: Daughter, dear, your escort brought you home very late last night.

Daughter: Yes, it was late, mother. Did the noise disturb you?

Mother: No, the silence.

The art of wolfing hasn't changed much through the centuries. The Greek maidens used to sit and listen to a lyre all evening, too.

"I see by the paper that a woman in Omaha has just cremated her fourth husband."

Isn't that always the way? Some of us can't get a man and others have husbands to burn."

"And there, my son, you have the story of your dad and the great World War."

"Yes, Daddy, but why did they need all those other soldiers?"

Newspaper ad: "The ladies of the Bisco Methodist Church have discarded clothes of all kinds. Call at 44 North Main Street and inspect them."

A Texan heard that a factory was interested in buying bullfrog skins. He wired the company that he could supply any quantity up to 100,000 on demand.

Needing the skins badly, the factory promptly wired back to send in the whole 100,000. About ten days later a single dried frog skin came through the mail with a rather pathetic letter:

"Gents: I'm sorry about this, but here's all the frog skins there were. The noise sure fooled me."

The drunk raised his glass and asked his pal, "What shall we drink to?"

Replied the other, with anticipation, "To excess."

"I wish I knew where George was," remarked the young wife.

"I presume, my dear," said her mother-in-law, "that you mean you wish you knew where he is."

"Oh, no, I don't," was the firm retort. "I know where he is. He's in bed with a black eye and a headache. I want to know where he was."

Enoch had invited Joe for a ride on the back of his new motorcycle. After they had gone a few miles, Enoch asked Joe how he liked it.

"All right," said Joe, "but the wind is catching my chest."

So Enoch stopped. "Take your overcoat off, Joe, and put it on back to front; that will protect your chest a bit, and I'll button it up at the back."

Mental Specialist: And that habit of talking to yourself—that's nothing to worry about.

Patient: Maybe not—but I'm such a damned bore!

"You're a cheat!" the first lawyer accused his opponent.

"You're a liar!" the other retorted.

Then from the judge: "Now that these attorneys have identified each other, we shall proceed with the case."

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"I guess I'm slipping, George. This fight is about who owns the tidewater oil rights."

Gene Reid Drilling Co. is rigging up to drill Tejon Ranch No. 1 for Western Gulf Oil Co. in Sec. 29-11-18 in the El Paso Creek area of Kern County.

Texas Co.'s Malis No. 1 north of the western end of the Del Valle field in the Val Verde area will be drilled by Rocky Mountain Drilling Co.

C. C. M. O. Co. plan to contract the drilling of an offset to Seaboard Oil Co.'s Johnson No. 1 in the Lawndale field.

William P. Rogers, counsel for the war investigating committee, has announced that the probe of the Navy's wartime oil deal for fuel to power its fighting ships will open early in October.

The committee plans to delve into all phases of charges that the Navy paid $59,000,000 for oil which it could have purchased for only $26,000,000.

The Russian ambassador in Teheran has presented a draft of the proposed organization of the Soviet-Iranian Oil Co. to the Iran Government, according to reports received here. Details of the oil pact have not been disclosed.

"United States Petroleum Import Prospects" is the title of a study of imports made by R. L. Trisko of the fuels and lubricant section, office of international trade, Commerce Department.

Newhall Well Changes Title

Aurora Corp. has acquired the title to the Shell Oil Co. Braille Institute No. 1 well in Sec. 2-3n-16w in the Newhall area.

Seal Beach Jobs Start

Rig is up for Continental Oil Co.'s Bixby No. 3-1 in Sec. 34-4s-12w in the Seal Beach field. Bixby No. 57 in Sec. 2-5s-12w is a location only.

Kern River Drill Record

Tide Water Associated Oil Co.'s expressed opinion indicates that it has set a new world's record for drilling an oil well to 1000 ft. Green & Whittier No. 39 in the Kern River field required only 29 hours from spudding time to hanging liner.

The company drilled eight shallow wells in the field in 18 days, an average of 54 hours from spud to spud. The total footage drilled in completing the wells was 8485 ft., or an average of 1060 ft. per well. The wells got a total of 397 barrels of oil daily. Total cost of the eight wells was about $80,000.

This remarkable drilling program was carried out under the supervision of L. A. Deford, company drilling foreman at Kern River.

Paloma Well Drills Ahead

Western Gulf Oil Co.'s Los Angeles Athletic Club No. 28-6 well in Sec. 6-32s-27e in the Paloma field is drilling ahead at 11,300 ft. The hole probably will not go very much deeper before completion efforts are initiated.

Inglewood Test Listed

F. E. Gober of Long Beach is planning to drill Gober No. 1 on a lease taken over from the Inglewood Ore & Reduction Co. in the Inglewood area. The property is adjacent to the Basin Oil Co. lease.

Ramona Job Drills Ahead

On the Aguierre lease in the Ramona field, Universal Consolidated Oil Co. is making hole ahead below 1500 feet with No. 202 in Sec. 13-4n-18w.

A Broadway playboy had a closer shave than he bargained for in a local barbershop. His manicure girl was very beautiful, and he suggested dinner and a show that evening. "I don't think I ought to," said the girl demurely. "I'm married."

"Ask your husband," suggested the playboy. "I'm sure he wouldn't mind."

"Why don't you ask him?" said the beautiful girl. "He's shaving you."